

# BONNEY WRENCHES



WATKINS & RADCLIFFE CO.  
4135-37 Woodward Avenue,  
Detroit, Mich.

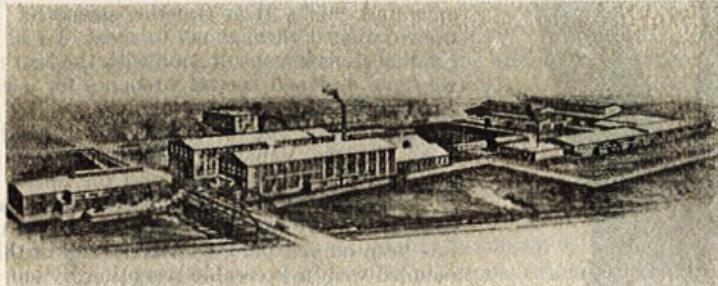


BONNEY FORCE & TOOL WORKS *Allentown, Pa.*

# Bonney Forge & Tool Works

Allentown, Pennsylvania, U. S. A.

Catalog No. 26



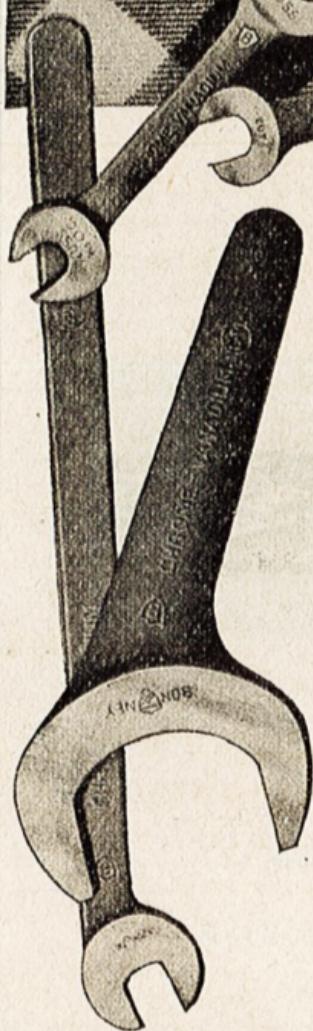
*Philadelphia Office:*

405-406 Stephen Girard Building

*Factory Cable Address:*

"Bonnevise," Allentown, Western Union Code





## *Introduction*

### **BONNEY 'CV' \* Chrome Vanadium Wrenches**

**B**ONNEY 'CV' Chrome Vanadium, the original complete line of Alloy Steel Wrenches, is recognized by mechanics, generally, by their design, appearance and chiefly their superior strength. They have been designed throughout to meet a real need. By gradual steps in consultation with the best mechanics, we have designed special wrenches for a great many of the most difficult uses.

This catalog shows for the first time the Bonney 'CV' Chrome Vanadium Socket Wrenches in three types: Offset, "T" handle and the Speed Type.

We have gone to great expense, time and labor to develop these lines, not one of which is a type which has been offered before. Advertising of this product, coupled with a favorable reception by our customers, has made it necessary and advisable that we protect ourselves. We have, therefore, secured protection by patents, trade marks and copyrights. We call your attention to a notice of warning on opposite page of this catalog.

In order that our customers may readily identify Bonney 'CV' Chrome Vanadium Wrenches, we call attention to the following, which is our standard finish on this line. White Nickel Body with Buffed Heads, Orange and Black Decalcomania on one side of the body and 'CV', also the words "Chrome Vanadium" (Reg. Aug. 11, 1925), on the reverse side of the body.

Throughout this catalog 'CV' is used with an asterisk (\*). This refers to the notification that 'CV' is a Bonney trade mark registered in the U. S. Patent Office.

## Important

PRICES EFFECTIVE NOVEMBER 15, 1925

PRICES shown in this catalog are suggested retail prices. All list prices shown in former catalogs and advertising matter have now been abandoned. The change from former lists has been made at the suggestion of many jobbers and dealers in order that the retail selling prices might be readily available.

In changing from the old list to the new prices, the discounts have been properly adjusted.

## Notice

The public, which includes manufacturers, dealers and users, is hereby advised and notified that the BONNEY FORCE & TOOL WORKS of Allentown, Pa., has protected its exclusive rights to the manufacture and sale of 'CV' "Chrome Vanadium" Wrenches, or wrenches simulating these wrenches in form, appearance or composition, by numerous applications for patents and trade marks now pending or which have already been granted or are about to be granted and which wrenches generally are by law protected against unfair competition in trade.

Manufacturers, dealers and users are notified and warned that the unauthorized manufacture, sale or resale or use of any wrench or tool copying, or unfairly imitating or simulating our alloy steel products, such as 'CV' Chrome Vanadium Wrenches, constitutes an infringement and those so doing render themselves liable to all the penalties provided by law.

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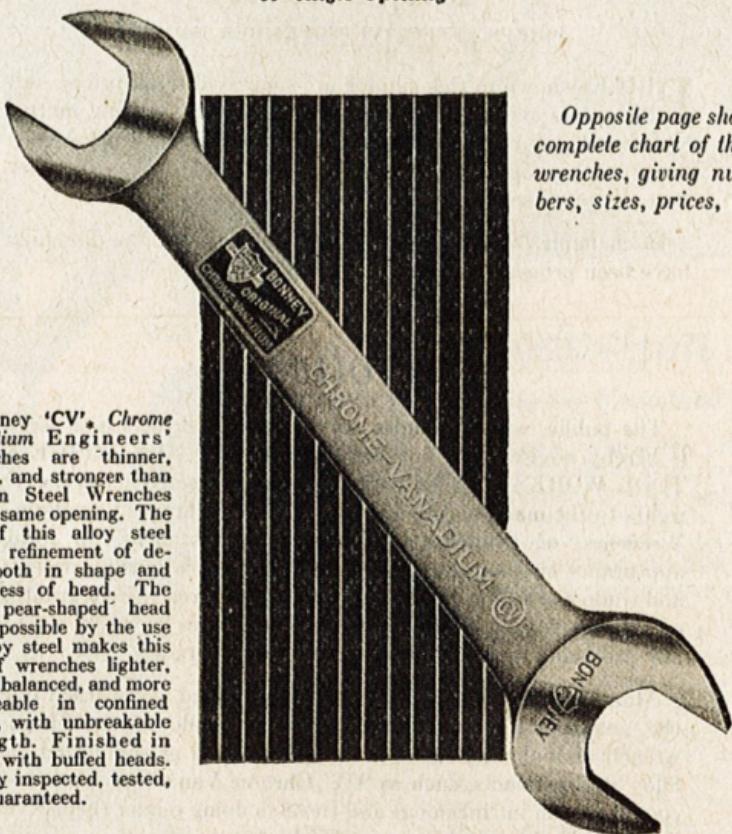
BONNEY FORCE & TOOL WORKS  
ALLENTOWN, PA.

*This decalcomania appears on all  
Bonney 'C-V' Chrome Vanadium Wrenches*



BONNEY 'CV' \* Chrome Vanadium  
ENGINEERS' WRENCHES

15° Angle Opening



Opposite page shows  
complete chart of these  
wrenches, giving num-  
bers, sizes, prices, etc.

Bonney 'CV', Chrome Vanadium Engineers' Wrenches are thinner, longer, and stronger than Carbon Steel Wrenches of the same opening. The use of this alloy steel allows refinement of design both in shape and thickness of head. The thin, pear-shaped head made possible by the use of alloy steel makes this line of wrenches lighter, better balanced, and more serviceable in confined places, with unbreakable strength. Finished in nickel with buffed heads. Rigidly inspected, tested, and guaranteed.

**Every one of these Bonney 'CV'  
Engineer Wrenches is guaranteed  
to strip the thread of any  
U.S.S. or S.A.E. nut or break the  
bolt before the jaws will spread.**

BONNEY 'CV' \* Chrome Vanadium  
ENGINEERS' WRENCHES

Double Head, 15° Angle

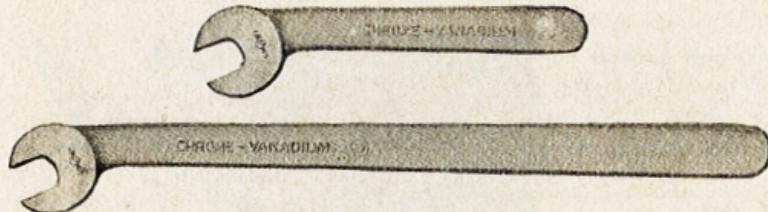
Illustrated on opposite page

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
1722	$\frac{1}{8}$ & $\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$ & $\frac{1}{8}$ & $\frac{1}{4}$	& & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{3}{16}$ & $\frac{1}{4}$	$4\frac{1}{2}$	$\frac{7}{32}$	
1022	$\frac{1}{8}$ & $\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$ & $\frac{1}{8}$ & $\frac{1}{4}$	& & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{3}{16}$ & $\frac{1}{4}$	$4\frac{1}{2}$	$\frac{7}{32}$	
1723	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	& & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{3}{16}$ & $\frac{1}{4}$	$4\frac{1}{2}$	$\frac{7}{32}$	
1023	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	& & $\frac{1}{4}$	$\frac{13}{32}$ & $\frac{3}{16}$ & $\frac{1}{4}$	$4\frac{1}{2}$	$\frac{7}{32}$	
1723A	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	& & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{3}{16}$ & $\frac{1}{4}$	$4\frac{1}{2}$	$\frac{7}{32}$	
1724	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	& & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{3}{16}$ & $\frac{1}{4}$	$5\frac{1}{2}$	$\frac{13}{64}$	
1024	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	& & $\frac{1}{4}$	$\frac{13}{32}$ & $\frac{3}{16}$ & $\frac{1}{4}$	$5\frac{1}{2}$	$\frac{13}{64}$	
1725	$\frac{1}{4}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{4}$	& & $\frac{1}{4}$	$\frac{7}{16}$ & $\frac{9}{16}$ & $\frac{1}{4}$	$5\frac{1}{2}$	$\frac{13}{64}$	
1725A	$\frac{1}{4}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{4}$	& & $\frac{1}{4}$	$\frac{7}{16}$ & $\frac{9}{16}$ & $\frac{1}{4}$	$5\frac{1}{2}$	$\frac{13}{64}$	
1725B	$\frac{1}{4}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{4}$	& & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{9}{16}$ & $\frac{1}{4}$	$5\frac{1}{2}$	$\frac{13}{64}$	
1025	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{13}{32}$	$5\frac{1}{2}$	$\frac{13}{64}$	
1726	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$6\frac{1}{2}$	$\frac{9}{32}$	
1026	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{11}{16}$	$6\frac{1}{2}$	$\frac{9}{32}$	
1727	$\frac{3}{8}$ & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	$6\frac{1}{2}$	$\frac{9}{32}$	
1027	$\frac{3}{16}$ & $\frac{3}{8}$			$\frac{13}{32}$ & $\frac{11}{16}$	$6\frac{1}{2}$	$\frac{9}{32}$	
1027C		$\frac{3}{8}$ &	$\frac{3}{8}$ &	$\frac{9}{16}$ & $\frac{11}{16}$	$6\frac{1}{2}$	$\frac{9}{32}$	
1028	$\frac{3}{16}$ & $\frac{7}{16}$			$\frac{19}{32}$ & $\frac{23}{32}$	$7\frac{1}{2}$	$\frac{13}{64}$	
1728	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{3}{4}$	$7\frac{1}{2}$	$\frac{9}{32}$	
1028S				$\frac{5}{8}$ & $\frac{23}{32}$	$7\frac{1}{2}$	$\frac{9}{32}$	
1729	$\frac{3}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$	$7\frac{1}{2}$	$\frac{9}{32}$	
1029	$\frac{3}{8}$ & $\frac{7}{16}$			$\frac{11}{16}$ & $\frac{25}{32}$	$7\frac{1}{2}$	$\frac{9}{32}$	
1730	$\frac{3}{16}$ & $\frac{3}{16}$	$\frac{7}{16}$ & $\frac{3}{16}$	$\frac{5}{8}$ & $\frac{9}{16}$	$\frac{5}{8}$ & $\frac{13}{32}$	$8\frac{1}{2}$	$\frac{11}{32}$	
1030	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{11}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	$8\frac{1}{2}$	$\frac{11}{32}$	
1731	$\frac{1}{2}$ & $\frac{3}{16}$	$\frac{1}{2}$ & $\frac{3}{16}$	$\frac{1}{2}$ & $\frac{3}{16}$	$\frac{3}{4}$ & $\frac{13}{16}$	$8\frac{1}{2}$	$\frac{11}{32}$	
1731A		$\frac{1}{2}$ & $\frac{3}{16}$	$\frac{1}{2}$ & $\frac{3}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	$8\frac{1}{2}$	$\frac{11}{32}$	
1031	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{21}{32}$	$\frac{25}{32}$ & $\frac{7}{8}$	$8\frac{1}{2}$	$\frac{11}{32}$	
1731B		$\frac{9}{16}$ & $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{15}{16}$	$8\frac{1}{2}$	$\frac{11}{32}$	
1732	$\frac{3}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{11}{16}$	$\frac{3}{4}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{1}{2}$	$9\frac{1}{2}$	$\frac{13}{32}$	
1032	$\frac{7}{16}$ & $\frac{9}{16}$			$\frac{25}{32}$ & $\frac{31}{32}$	$9\frac{1}{2}$	$\frac{13}{32}$	
1732A		$\frac{9}{16}$ & $\frac{3}{4}$		$\frac{13}{16}$ & $\frac{1}{2}$	$9\frac{1}{2}$	$\frac{13}{32}$	
1033A	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{5}{8}$ & $\frac{7}{8}$	$\frac{7}{8}$ & $\frac{15}{16}$	$9\frac{1}{2}$	$\frac{13}{32}$	
1033	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{11}{16}$	$\frac{7}{8}$ & $\frac{31}{32}$	$9\frac{1}{2}$	$\frac{13}{32}$	
1733	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{11}{16}$	$\frac{7}{8}$ & $\frac{1}{2}$	$9\frac{1}{2}$	$\frac{13}{32}$	
1033C		$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{5}{8}$ & $\frac{11}{16}$	$\frac{15}{16}$ & $\frac{1}{2}$	$9\frac{1}{2}$	$\frac{13}{32}$	
1034	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$ & $\frac{7}{8}$	$\frac{5}{8}$ & $\frac{24}{32}$	$\frac{7}{8}$ & $\frac{11}{16}$	$10\frac{1}{2}$	$\frac{15}{32}$	
1734	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$ & $\frac{7}{8}$	$\frac{9}{16}$ & $\frac{11}{16}$	$\frac{7}{8}$ & $\frac{11}{16}$	$10\frac{1}{2}$	$\frac{15}{32}$	
1034A		$\frac{5}{8}$ &	$\frac{5}{8}$ &	$\frac{15}{16}$ & $\frac{11}{16}$	$10\frac{1}{2}$	$\frac{15}{32}$	
1035	$\frac{9}{16}$ & $\frac{7}{8}$		$\frac{7}{8}$ & $\frac{24}{32}$	$\frac{31}{32}$ & $\frac{11}{16}$	$10\frac{1}{2}$	$\frac{15}{32}$	
1735		$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{11}{16}$ &	$\frac{1}{2}$ & $\frac{11}{16}$	$10\frac{1}{2}$	$\frac{15}{32}$	
1036	$\frac{9}{16}$ & $\frac{3}{4}$		$\frac{7}{8}$ &	$\frac{31}{32}$ & $\frac{11}{16}$	12	$\frac{17}{32}$	
1736		$\frac{3}{4}$ & $\frac{1}{2}$	$\frac{11}{16}$ &	$\frac{1}{2}$ & $\frac{11}{16}$	12	$\frac{17}{32}$	
1037	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{1}{2}$	$\frac{7}{8}$ &	$\frac{11}{16}$ & $\frac{11}{16}$	12	$\frac{17}{32}$	
1737		$\frac{3}{4}$ & $\frac{3}{4}$	$\frac{7}{8}$ & $\frac{1}{2}$	$\frac{7}{8}$ & $\frac{11}{16}$	12	$\frac{17}{32}$	

BONNEY 'CV' \* Chrome Vanadium

SINGLE HEAD SERVICE  
WRENCHES

22½° Angle Opening



This line of Wrenches is especially designed for production work and service work. The wrenches are designed to stand all the leverage that the extremely long handles will allow. They are found useful on certain makes of cars for tappet adjustments. Absolutely guaranteed.

No.	U.S.S. Bolt Size	Hex. Head Cap Screw	S.A.E. Std. Screw and Nut	Open- ing Milled	Ex- treme Lgth.	Thick- ness of Heads	Price Each
Short Handle Wrench	1401	...	6"	LONG	3 9/16	6	7/32
	1401A	3/16	1/4	1/16	6	7/32	1.35
	1402	1/4	5/16	1/2	6	7/32	
	1402A	...	...	17/32	6	7/32	
	1403	3/8	3/8	9/16	6	7/32	
	1403A	5/16	...	19/32	6	7/32	
Medium Handle Wrench	1404	3/16	3/16	5/8	9	9/32	1.70
	1405	3/8	1/2	11/16	9	9/32	
	1406	...	...	3/4	9	9/32	
	1501	3/16	1/4	3/8	12	7/32	
Long Handle Wrench	1501A	1/4	1/4	7/16	12	7/32	2.00
	1502	1/4	5/16	1/2	12	7/32	
	1502A	...	...	17/32	12	7/32	
	1503	3/8	3/8	9/16	12	7/32	
	1503A	5/16	...	19/32	12	7/32	
	1504	1/2	1/2	5/8	12	9/32	2.25
	1505	3/8	1/2	11/16	12	9/32	
	1506	3/2	3/2	3/4	12	11/32	
	1506A	5/16	...	25/32	12	11/32	2.45
	1507	...	...	13/16	12	11/32	
	1507A	3/2	...	7/8	12	11/32	
	1508	...	...	15/16	12	11/32	
	1508A	5/16	...	31/32	12	11/32	2.65
	1509	3/4	13/16	1	12	11/32	
	1509A	5/8	...	11/16	12	11/32	

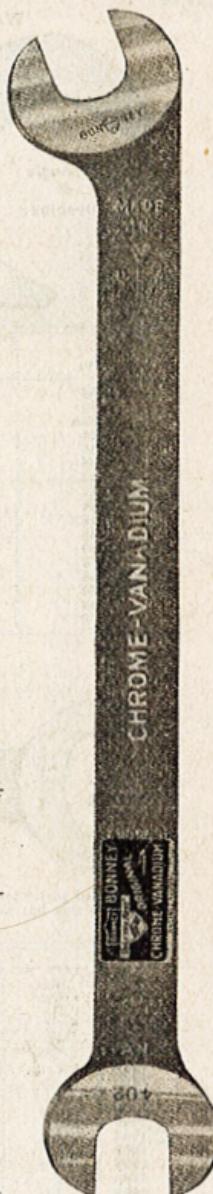
BONNEY 'CV'\* Chrome Vanadium  
TAPPET WRENCHES

BONNEY 'CV'\* Chrome Vanadium Tappet Wrenches are the result of many months' careful study and experimental work with expert mechanics. The proper length, 8 inches, allows you to work clear of your motor when it is hot (the only time for adjusting) and the angle of the heads allows you to reach around into inaccessible positions.

As most cars require three wrenches to make complete tappet adjustment, these wrenches are designed so that two can be worked like scissors with one hand while the third is used in the other hand. This is accomplished by having two openings, both the same size but at different angles, on each wrench. One opening is straight, the other at  $22\frac{1}{2}$  degrees.

You can order separately such wrenches as you need or in sets of your own selection, or in set No. 412 shown on page 13.

Stock No.	Milled Opening	S. A. E. Standard Nuts Bolt Size	U. S. S. Nuts Bolt Size	Extreme Length	Thickness of Head	Price Each
401	$\frac{3}{8}$	...	...	8	$\frac{5}{32}$	
401A	$\frac{7}{16}$	$\frac{1}{4}$	...	8	$\frac{5}{32}$	
402	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{1}{4}$	8	$\frac{5}{32}$	
402A	$1\frac{1}{32}$	...	...	8	$\frac{5}{32}$	
403	$\frac{9}{16}$	$\frac{3}{8}$	...	8	$\frac{5}{32}$	
403A	$1\frac{1}{32}$	...	$\frac{5}{16}$	8	$\frac{5}{32}$	
404	$\frac{5}{8}$	...	$\frac{7}{16}$	8	$\frac{3}{16}$	
405	$1\frac{1}{16}$	...	$\frac{3}{8}$	8	$\frac{3}{16}$	
406	$\frac{3}{4}$	$\frac{1}{2}$	...	8	$\frac{7}{32}$	
406A	$2\frac{1}{32}$	...	$\frac{7}{16}$	8	$\frac{7}{32}$	
407	$1\frac{7}{16}$	...	...	8	$\frac{7}{32}$	
407A	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	8	$\frac{7}{32}$	
408	$1\frac{5}{16}$	$\frac{5}{8}$	...	8	$\frac{7}{32}$	
408A	$3\frac{1}{32}$	...	$\frac{9}{16}$	8	$\frac{7}{32}$	
409	1	$1\frac{1}{16}$	...	8	$\frac{7}{32}$	



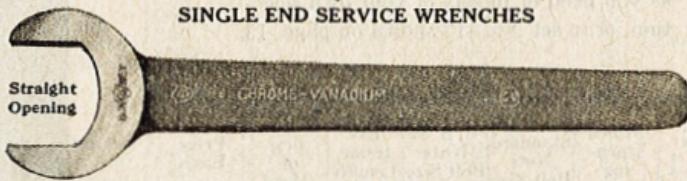
BONNEY 'CV' \* Chrome Vanadium  
WATER PUMP PACKING NUT WRENCHES



One of the hardest adjustments on a water cooled motor is the water pump packing nut. This nut is usually of brass and very thin. It should be tightened only with a wrench and never with a drive punch and hammer. Wrenches to do this work must be very thin yet short to fit into the narrow space in which the pump is located. These wrenches are designed especially for this work and their use for other classes of work or with added leverage is not recommended.

No.	Milled Opening	Length	Thickness of Head	Price Each
1230	1 $\frac{1}{2}$	7	1 $\frac{1}{2}$	
1232	1	7	1 $\frac{1}{2}$	
1232A	1 $\frac{1}{2}$	7	1 $\frac{1}{2}$	
1234	1 $\frac{1}{2}$	7	1 $\frac{1}{2}$	
1236	1 $\frac{1}{2}$	7	1 $\frac{1}{2}$	
1238	1 $\frac{1}{2}$	7	1 $\frac{1}{2}$	
1240	1 $\frac{1}{2}$	7	1 $\frac{1}{2}$	
1242	1 $\frac{1}{2}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	
1244	1 $\frac{1}{2}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	
1246	1 $\frac{1}{2}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	
1248	1 $\frac{1}{2}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	
1250	1 $\frac{1}{2}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	
1252	1 $\frac{1}{2}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	
1256	1 $\frac{1}{2}$	8 $\frac{1}{2}$	1 $\frac{1}{2}$	
1260	1 $\frac{1}{2}$	8 $\frac{1}{2}$	1 $\frac{1}{2}$	
1264	2	8 $\frac{1}{2}$	1 $\frac{1}{2}$	
1272	2 $\frac{1}{4}$	8 $\frac{1}{2}$	1 $\frac{1}{2}$	
				\$1.75
				2.00
				2.50

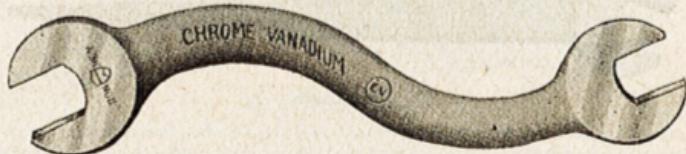
BONNEY 'CV' \* Chrome Vanadium  
SINGLE END SERVICE WRENCHES



Designed particularly for assembling and service work on pinion shaft bearing adjusting nuts. Heads are thin but sufficiently strong to stand the leverage of 12 $\frac{1}{4}$ " length without breaking or spreading.

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Milled Opening	Length	Thickness of Head	Price Each
1932	3/8	3/8	11/16	1	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1934	3/8	3/8	3/4	1 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1936	1/2	1	3/4	1 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1940	3/4	1 $\frac{1}{2}$	3/4	1 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1944	3/4	1 $\frac{1}{2}$	1	1 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1946	3/8	1 $\frac{1}{2}$	1	1 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1948	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1952	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1956	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1958	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1960	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1964	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1966	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
1970	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	12 $\frac{1}{4}$	1 $\frac{1}{2}$	
							\$2.75
							3.25
							3.50

BONNEY 'CV' \* Chrome Vanadium  
"S" WRENCHES



22½° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
1075C	& $\frac{1}{8}$	& $\frac{1}{8}$		$\frac{1}{4}$ & $\frac{5}{16}$	$6\frac{1}{4}$	$\frac{1}{4}$	
1075B		$\frac{3}{16}$ & $\frac{1}{4}$	& $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$6\frac{1}{4}$	$\frac{1}{4}$	
1075A		$\frac{3}{16}$ & $\frac{5}{16}$	& $\frac{5}{16}$	$\frac{5}{8}$ & $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{1}{4}$	
1075	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{5}{16}$ & $\frac{5}{16}$	& $\frac{5}{16}$	$1\frac{1}{2}$ & $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{1}{4}$	
1077S	& $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{2}$ & $\frac{1}{2}$	$7\frac{1}{8}$	$\frac{9}{32}$	
1077C		$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$7\frac{1}{8}$	$\frac{9}{32}$	
1077B	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$7\frac{1}{8}$	$\frac{9}{32}$	
1077A	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{5}{16}$	$\frac{1}{2}$ & $1\frac{1}{2}$	$7\frac{1}{8}$	$\frac{9}{32}$	
1077	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{9}{8}$	$7\frac{1}{8}$	$\frac{9}{32}$	
1079F		$\frac{5}{16}$ & $\frac{1}{2}$	$\frac{5}{16}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$8\frac{1}{4}$	$\frac{5}{16}$	
1079B	& $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{5}{16}$	$\frac{1}{2}$ & $1\frac{1}{2}$	$8\frac{1}{4}$	$\frac{5}{16}$	
1079S		$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{9}{8}$	$8\frac{1}{4}$	$\frac{5}{16}$	
1079A	& $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{5}{16}$	$\frac{1}{2}$ & $1\frac{1}{2}$	$8\frac{1}{4}$	$\frac{5}{16}$	
1079E		$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$8\frac{1}{4}$	$\frac{5}{16}$	
1079D	$\frac{3}{16}$ & $\frac{3}{8}$			$1\frac{1}{2}$ & $\frac{1}{16}$	$8\frac{1}{4}$	$\frac{5}{16}$	
1079	& $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{5}{16}$	$\frac{1}{2}$ & $\frac{5}{16}$	$\frac{1}{2}$ & $\frac{11}{16}$	$8\frac{1}{4}$	$\frac{5}{16}$	
1079C		$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{24}{16}$	$8\frac{1}{4}$	$\frac{5}{16}$	
1081E	& $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{5}{8}$	$\frac{3}{16}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{5}{8}$	$9\frac{1}{4}$	$\frac{3}{8}$	
1081C	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$9\frac{1}{4}$	$\frac{3}{8}$	
1081	$\frac{3}{8}$ & $\frac{1}{2}$			$1\frac{1}{16}$ & $2\frac{1}{2}$	$9\frac{1}{4}$	$\frac{3}{8}$	
1081B		$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $13\frac{1}{16}$	$9\frac{1}{4}$	$\frac{3}{8}$	
1081A	& $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{28}{16}$	$9\frac{1}{4}$	$\frac{3}{8}$	
1081D	$\frac{1}{16}$ & $\frac{1}{2}$			$2\frac{23}{32}$ & $\frac{7}{8}$	$9\frac{1}{4}$	$\frac{3}{8}$	
1083F	& $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{9}{16}$ & $\frac{5}{8}$	$1\frac{13}{16}$ & $\frac{7}{8}$	$10\frac{3}{8}$	$\frac{7}{16}$	
1083D	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $1\frac{15}{16}$	$10\frac{3}{8}$	$\frac{7}{16}$	
1083E		$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	$1\frac{15}{16}$ & $1$	$10\frac{3}{8}$	$\frac{7}{16}$	
1083B	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $1$	$10\frac{3}{8}$	$\frac{7}{16}$	
1083C	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $1\frac{1}{16}$	$10\frac{3}{8}$	$\frac{7}{16}$	
1083A			$\frac{9}{8}$ & $\frac{1}{2}$	$1\frac{1}{16}$ & $1$	$10\frac{3}{8}$	$\frac{7}{16}$	
1085		$\frac{3}{4}$ & $\frac{1}{2}$	$\frac{11}{16}$ & $\frac{1}{2}$	$1$ & $1\frac{1}{16}$	12	$\frac{1}{2}$	
1085A	& $\frac{3}{4}$	$\frac{3}{4}$ & $1$	$\frac{11}{16}$ & $1$	$\frac{7}{8}$ & $1$	$1\frac{1}{4}$	12	$\frac{1}{2}$
1085C	$\frac{5}{8}$ & $\frac{3}{4}$		$\frac{3}{4}$ & $1$	$\frac{7}{8}$ & $1$	$1\frac{1}{16}$ & $1\frac{1}{4}$	12	$\frac{1}{2}$
1085B	& $\frac{3}{4}$	$\frac{7}{8}$ & $1$		$\frac{7}{8}$ & $1\frac{1}{4}$	12	$\frac{1}{2}$	

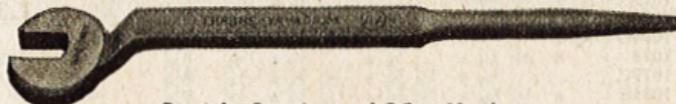
BONNEY 'CV'\*, Chrome Vanadium  
CONSTRUCTION WRENCHES



15° Angle

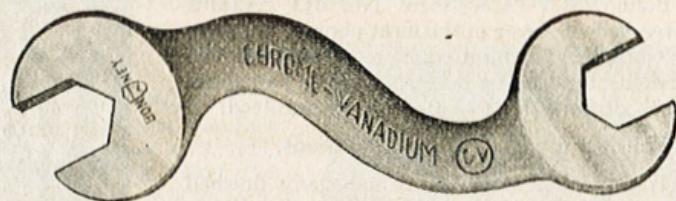
No.	U. S. S. Bolt Size	Opening Milled	Extreme Length	Thickness Head	Price Each
1450	3/8	11 1/16	9 1/2	7/16	\$1.45
1451	7/16	23/32	9 1/2	7/16	1.45
1452	1/2	7/8	11	1/2	1.85
1453	9/16	31/32	11	1/2	1.85
1454	5/8	13/16	13	9/16	2.55
1455	3/4	1 1/4	15	5/8	3.50
1456	7/8	13/16	17	1 1/16	4.75
1457	1	1 5/8	19	3/4	6.70

BONNEY 'CV'\*, Chrome Vanadium  
STRUCTURAL WRENCHES



Straight Opening and Offset Head

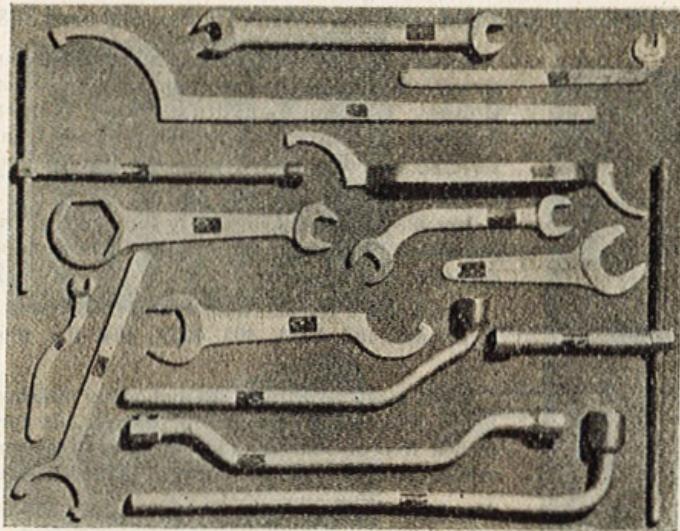
No.	U. S. S. Bolt Size	Opening Milled	Extreme Length	Thickness Head	Handle Offset	Price Each
1480	3/8	23/32	9 1/2	7/16	7/8	\$1.65
1481	7/16	13/16	9 1/2	7/16	7/8	1.65
1482	1/2	29/32	11	1/2	1	2.20
1483	9/16	1	11	1/2	1	2.20
1484	5/8	1 1/64	13	5/8	1 1/8	3.10
1485	3/4	119/64	15	11/16	1 1/4	4.25
1486	7/8	1 1/2	17	5/4	1 1/16	5.75
1487	1	11 1/16	19	13/16	1 3/8	7.95

BONNEY 'CV'\* Chrome Vanadium  
DOUBLE HEAD "S" WRENCHES

22½° Openings

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
1070	.....	3/16 & 5/16 &	1/4 & 5/16 & 9/16 &	1/4 & 3/8 & 5/8 & 11/16 &	4	1/4	\$0.70
1071	1/4 &	5/16 &	9/16 &	3/8 & 5/8 &	5	5/16	.90
1072	.....	1/2 &	9/16 &	3/4 & 13/16 &	6	3/8	1.25
1073	1/2 &	5/8 & 3/4 &	9/16 & 11/16 &	7/8 & 1	7	7/16	1.60

The illustration below shows a few special wrenches, not stock items, but for particular purposes. Your inquiries solicited for special wrenches of any description.



**BONNEY 'CV' \* Chrome Vanadium  
ENGINEERS' WRENCH ASSORTMENT No. 311**

Bonney 'CV' Assortment No. 311 contains three each of eleven of the most popular numbers of Chrome Vanadium engineers' wrenches. All wrenches are drop-forged from Chrome Vanadium Steel, properly heat treated and guaranteed.

Finished in nickel with buffed heads.

With each assortment a mahogany finished board with hooks, number plates, etc., is furnished free of charge. The board is of a convenient size, 25 $\frac{3}{4}$  inches long by 7 $\frac{1}{2}$  inches wide.

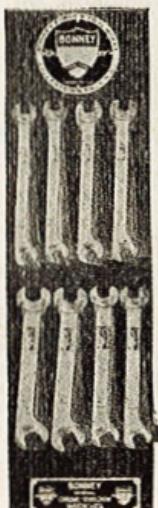
Assortment consists of three each of following 'CV' wrenches: 1723, 1023, 1723A, 1725, 1725B, 1025, 1727, 1027, 1027C, 1029 and 1731A.

The complete assortment is packed in a shipping container and weighs 10 pounds. It can be shipped by parcel post.

Price of Assortment, \$29.55



**BONNEY 'CV' \* Chrome Vanadium  
TAPPET WRENCH ASSORTMENTS No. 608 and 308**



Bonney 'CV' \* Assortment No. 608 contains six each of eight of the most popular numbers of Bonney Chrome Vanadium Valve Tappet wrenches. All wrenches are drop-forged from Chrome Vanadium Steel, properly heat treated and guaranteed.

No. 308 assortment is exactly the same as No. 608 except that the quantities are three each of each size instead of six.

The Tappet Wrench numbers in these assortments are: 402, 402A, 403, 403A, 404, 405, 406, 407.

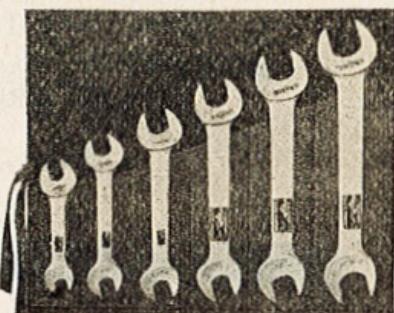
With each assortment a mahogany finished board with hooks, number plates, etc., is furnished free of charge. The board is of a convenient size, 25 $\frac{3}{4}$  inches long by 7 $\frac{1}{2}$  inches wide.

**No. 608. Weight 15 lbs. Price.....\$78.00**

**No. 308. Weight 8 lbs. Price..... 39.00**

BONNEY 'CV' \* Chrome Vanadium  
ENGINEERS' WRENCH SET No. 25

This set contains one each of the following 'CV' \* Chrome Vanadium Engineers' Wrenches: 1723, 1025, 1027C, 1028S, 1731A, 1033C. No duplicate openings. Will fit U. S. Standard Nuts  $\frac{1}{4}$ ,  $\frac{5}{16}$ ,  $\frac{3}{8}$ ,  $\frac{7}{16}$ ,  $\frac{1}{2}$ ,  $\frac{9}{16}$ , S. A. E. Nuts  $\frac{1}{4}$ ,  $\frac{5}{16}$ ,  $\frac{3}{8}$ ,  $\frac{7}{16}$ ,  $\frac{1}{2}$ ,  $\frac{11}{16}$ . Hex. Cap Screws  $\frac{5}{16}$ ,  $\frac{1}{4}$ ,  $\frac{5}{16}$ ,  $\frac{3}{8}$ ,  $\frac{7}{16}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ .

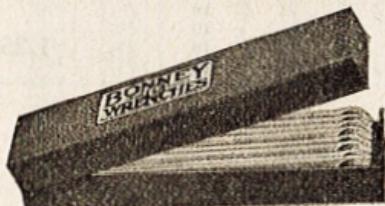
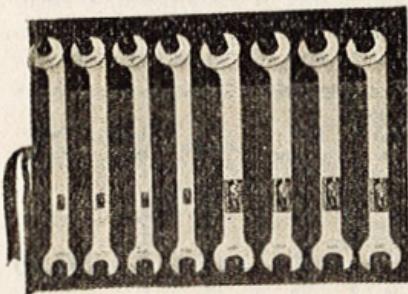


Packed Two Ways

Price

In Cardboard Box.....	\$6.85
In Leatherette Roll.....	7.85

BONNEY 'CV' \* Chrome Vanadium  
TAPPET WRENCH SET No. 412



Set No. 412.—This set consists of two (2) each Nos. 402, 403, 404 and 405 "Bonney" 'CV' \* Chrome Vanadium Valve Tappet Wrenches.

This set will take care of the adjustment of Valve Tappets on 70 per cent of the passenger cars and trucks.

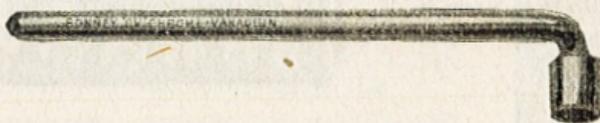
Packed Three Ways

Price

In Cardboard Box.....	\$12.60
In Leatherette Roll.....	13.60
In Metal Container.....	13.60

**BONNEY 'CV' \* Chrome Vanadium  
SOCKET WRENCHES**

Offset Type

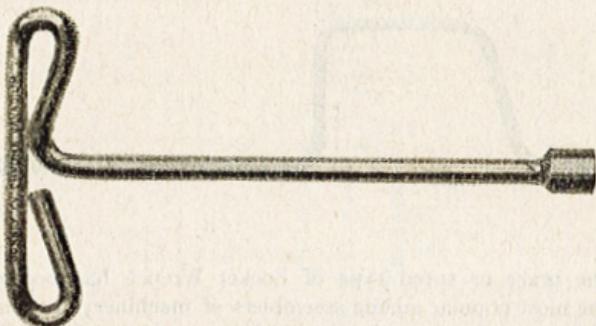


Bonney Offset Socket Wrenches are forged from Chrome Vanadium Steel and are one piece construction. The sockets are so designed as to provide a reasonable depth and the outside diameter is held down as far as practical to permit of the greatest possible clearance in operation. The wrenches are of superior design and workmanship and are absolutely guaranteed.

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Hex. Opening	Length	Handle Offset	Price Each
2101		$\frac{1}{4}$	$\frac{1}{4}$	$\frac{7}{16}$	8	2	
2102	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{1}{2}$	8	2	
2103		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{9}{16}$	8	2	
2104	$\frac{5}{16}$			$\frac{19}{32}$	10	2	
2105		$\frac{7}{16}$	$\frac{7}{16}$	$\frac{5}{8}$	10	2	
2106	$\frac{3}{8}$			$\frac{11}{16}$	10	2	
2107		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	10	2	
2108	$\frac{7}{16}$			$\frac{25}{32}$	10	$2\frac{1}{4}$	
2109		$\frac{9}{16}$		$\frac{13}{16}$	10	$2\frac{1}{4}$	
2110	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{7}{8}$	10	$2\frac{1}{4}$	
							<b>\$1.00</b>
							<b>1.25</b>

BONNEY 'CV' \* Chrome Vanadium  
SOCKET WRENCHES

'T' Type

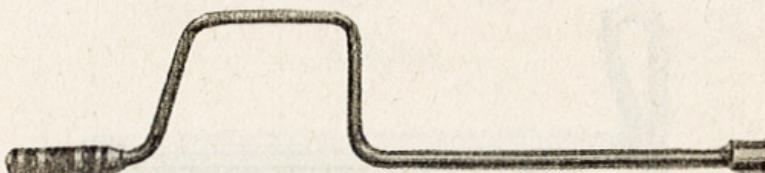


Bonney "T" handle Socket Wrenches are designed to afford a good grip for the hand without sacrificing economy of room. As is the case with all Bonney Chrome Vanadium Socket Wrenches, the head is turned down to give all possible clearance consistent with strength. The material is, of course, of such strength that these wrenches will withstand extraordinary strain and wear.

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Hex. Opening	Extreme Length	Price Each
2201		1/4	1/4	7/16	12	
2202	1/4	5/16	5/16	1/2	12	
2203		3/8	3/8	9/16	12	
2204	5/16			19/32	12	
2205		7/16	7/16	5/8	12	
2206	3/8			11/16	12	
2207		1/2	1/2	7/8	12	
2208	7/16			25/32	12	
2209		9/16		13/16	12	
2210	1/2	5/8	5/16	7/8	12	
						\$1.25
						1.50

BONNEY 'CV'\*, Chrome Vanadium  
SOCKET WRENCHES

Brace Type 20"



The brace or speed type of Socket Wrench has become one of the most popular among assemblers of machinery, automobiles, etc., because of the speed with which it may be operated. Besides the characteristic strength of Chrome Vanadium and the economical lines of the Socket, the Bonney brace or speed type embodies a ball bearing handle (Patent applied for), which absorbs the pressure applied at that point and enables the operator to use it with less fatigue and friction than is developed by the ordinary type.

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Hex. Opening	Ex- treme Length	Length of Shank	Price Each
2401		$\frac{1}{4}$	$\frac{1}{4}$	$\frac{7}{16}$	20	10	
2402	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{1}{2}$	20	10	
2403		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{9}{16}$	20	10	
2404	$\frac{5}{16}$			$\frac{12}{16}$	20	10	
2405		$\frac{7}{16}$	$\frac{7}{16}$	$\frac{5}{8}$	20	10	
2406	$\frac{3}{8}$			$\frac{11}{16}$	20	10	
2407		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	20	10	
2408	$\frac{7}{16}$			$\frac{25}{32}$	20	10	
2409		$\frac{9}{16}$		$\frac{13}{16}$	20	10	
2410	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{7}{8}$	20	10	
							\$1.75
							2.00

Brace Type 30"

2503	.....	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{5}{16}$	30	20	\$2.25
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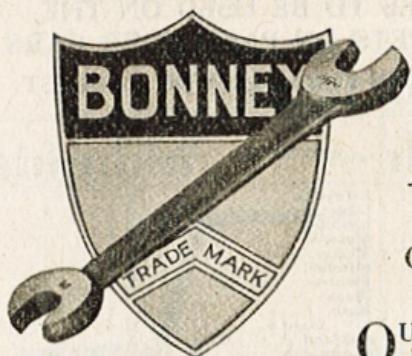
# BONNEY FORGE & TOOL WORKS Allentown, Pa.

## CHART OF WRENCHES TO BE USED ON THE ADJUSTMENT OF TAPPETS ON PASSENGER CARS SIZES NEEDED FOR TRUCKS FURNISHED ON REQUEST

WRENCH No.	401A	402	402A	403	404	405	406	406A	407	408	408A	409	WRENCH No.	401A	402	402A	403	404	405	406	406A	407	408	408A	409
Apperson													Lafayette												
Auburn													Liberty												
Briscoe		2											Lincoln												
Buick					1								Maxwell												
Cadillac				3									Mercer												
Case		1											Mitchell												
Chalmers													Monroe												
Chandler													Moon												
Chevrolet													Nash												
Chrysler 4		1		2									1 Light 6												
6		2		2									Oakland												
Cleveland													Oldsmobile												
Cole		1		1									Overland 4												
Crawford						2	1						80-1-3 85-4												
Cunningham				3									" 86												
Daniels													" 85-6												
Dodge		3											" 90												
Dort		1		1									" 88-6 89												
Dupont				2									" 93												
Durant		1											Packard 6												
Essex		2											" 8												
Flint					1	1							" 12												
Franklin						1	1	1					Paige												
Gardner 6 and 8		1		1									Pierce Arrow												
Gray		3											Premier												
Haynes						1	1						Reo												
Hudson				2									Rickenbacker												
Hupmobile 4				3									Standard												
" 6							2						Star												
" 8		3											Stephens												
Jordan B-C-F		2					1						Studebaker												
" M		1						1					Stutz												
Jewett				2		1							Wills St. Claire												
King					1	2							Winton												

## WRENCHES NEEDED FOR WATER PUMP PACKING NUT ADJUSTMENT

WRENCH No.	1232	1232A	1234	1240	1242	1246	1248	1250	1252	1256	1260	1272	WRENCH No.	1232	1232A	1234	1240	1242	1244	1246	1248	1250	1252	1256	1260	1264
Anderson 41													Jewett													
" 50													Jordan 6													
Auburn 6-43													" C-B-F													
Buick 4-1921		1											" 8													
" 6-1923													Kissel													
" 6-1924													Locomobile													
" 6-1925													Moon													
Case X					1								" 58													
" Y													Nash 81													
Chandler													" 91													
Chevrolet					1								" Light 6													
Cleveland													Oakland													
Columbia													Oldsmobile													
Cunningham													Packard 6													
Davis 71						1							" 8													
" 81							1						Paige 6-55													
Dodge													" 66 and 70													
" 1925								1					Paterson													
Durant		1											Premier													
Eclair 6-50													Reo													
" 6-60													Rickenbacker													
Flint													Star													
Hanson								1					Studebaker Light 6													
Hudson													Westcott 48													
" 1926													" 41													



## *Introduction*

BONNEY

Carbon Steel Wrenches

OUR former catalogs have shown Carbon Steel Drop-Forged Open-End Wrenches in three finishes: Unfinished, Semi-Finished and Full Finished. For reason of simplification and reduction of stock in the hands of customers, and for economy, two of these finishes have been abandoned: the Unfinished and the Full Finished. One finish only is now listed, which is black enamel over smooth body with heads ground bright and polished. All wrenches are marked with proper stampings to indicate their principal use.

All wrenches are packed in metal edge cardboard boxes, six in a box, with the exception of the larger sizes, which are packed in bulk.

Special finishes or unhardened wrenches will be furnished on special arrangement. Special openings from stock blanks will be furnished without extra charge in lots of 100 or more of a size, but where openings larger than those shown in our listings are called for, we cannot guarantee the strength of the wrenches.

## *Important*

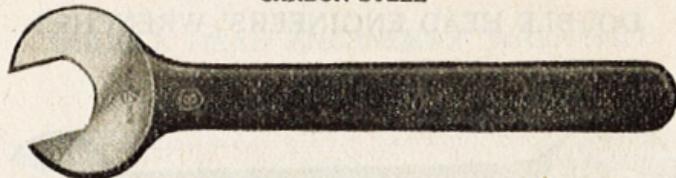
PRICES EFFECTIVE NOVEMBER 15, 1923

PRICES shown in this catalog are suggested retail prices. All list prices shown in former catalogs and advertising matter have now been abandoned. The change from former lists has been made at the suggestion of many jobbers and dealers in order that the retail selling prices might be readily available.

In changing from the old list to the new prices, the discounts have been properly adjusted.

## SINGLE HEAD ENGINEERS' WRENCHES

CARBON STEEL

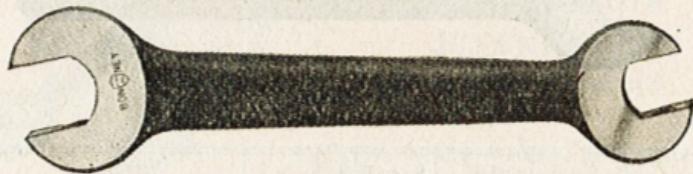


15° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ing Milled	Ex- treme Length	Thick- ness of Head	Price Each
00	1/8	1/8	...	5/16	3	13 1/4	
700	...	3/16	...	3 5/8	3 1/2	7/16	\$0.20
0	3/16	...	...	15 1/2	3 1/2	7/16	
701	...	1/4	1/4	7/16	4	7/16	
1	1/4	5/16	5/16	1/2	4	1/4	.25
702	...	3/8	3/8	9/16	4 3/4	9/32	
2	5/16	...	...	19/32	4 3/4	9/32	.30
703	...	1/2	1/2	5/8	5 5/8	5/16	
3	3/8	...	...	11 1/16	5 5/8	5/16	.35
704	...	1/2	1/2	3/4	6 1/2	11 1/2	
4	1/2	...	...	25/32	6 1/2	11 1/2	.45
705	...	5/8	...	13/16	7 1/2	13 1/2	
5	1/2	5/8	9/16	7/8	7 1/2	13 1/2	.50
6	5/16	...	...	31/32	8 3/8	7/16	
706	...	1/4	11/16	1	8 3/8	7/16	.65
7	5/8	...	9/16	11/16	9 1/4	1 1/2	.80
707	...	1/2	1/2	11/8	9 1/4	1 1/2	
8	3/4	1	1/2	1 1/4	11 1/8	9/16	
708A	...	1 1/8	1	1 3/8	11 1/8	9/16	1.00
9	1/2	...	1	1 7/16	13	21 1/2	
709	...	1 1/4	...	1 1/2	13	21 1/2	1.55
10	1	1 1/8	1 1/8	1 5/8	14 3/4	3/4	2.20
11	1 1/8	...	1 1/4	11 15/16	16 1/2	27/32	2.85
12	1 1/4	...	1 1/8	2	18 1/2	29/32	3.90
13	1 3/8	...	1 1/2	23/16	20	1	5.00
14	1 1/2	...	...	23/8	22	1 1/16	6.25
15	1 1/8	...	...	23/16	24	1 1/8	7.65
16	1 1/4	...	...	23/4	25 1/2	1 1/2	
16A	1 1/8	...	...	21 15/16	27	1 1/2	9.15
17	2	...	...	3 1/8	29 1/2	1 1/8	
18	2 1/4	...	...	3 1/2	33	1 1/2	14.00
19	2 1/2	...	...	3 7/8	37	1 1/8	20.15
19A	2 1/4	...	...	4 1/4	39	1 1/8	
20	3	...	...	4 5/8	41	1 1/8	28.65
20A	3 1/4	...	...	5	43	1 1/8	42.30
21A	3 1/2	...	...	5 3/8	45	2 1/2	
21B	3 3/4	...	...	5 3/4	47	2 1/2	71.00
21C	4	...	...	6 1/8	49	2 1/2	
22A	4 1/2	...	...	6 7/8	51	3	
22B	5	...	...	7 5/8	53	3	139.25

DOUBLE HEAD ENGINEERS' WRENCHES

CARBON STEEL



15° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thickness of Head	Price Each
721	1/8 & 1/8 &	1/8 & 3/16 &	.....	5/16 & 9/16 &	3 3/4 & 3 3/4 &	15/64 & 13/64 &	
21	1/8 &	3/16 &	.....	5/16 & 9/16 &	3 3/4 & 3 3/4 &	15/64 & 13/64 &	\$0.25
722	1/8 &	1/8 & 1/4 &	.....	5/16 & 9/16 &	4 & 4 &	15/64 & 13/64 &	
22	1/8 & 1/8 &	1/8 & 5/16 &	.....	5/16 & 9/16 &	4 & 4 &	15/64 & 13/64 &	
723	.....	3/16 & 3/16 &	.....	5/16 & 9/16 &	4 & 4 &	15/64 & 13/64 &	
723A	.....	3/16 & 3/16 &	.....	5/16 & 9/16 &	4 & 4 &	15/64 & 13/64 &	.30
23	3/16 & 3/16 &	1/4 & 5/16 &	.....	5/16 & 9/16 &	4 & 4 &	15/64 & 13/64 &	
724	3/16 & 3/16 &	3/16 & 3/8 &	.....	5/16 & 9/16 &	4 & 4 &	15/64 & 13/64 &	
24	3/16 & 3/16 &	5/16 & 1/4 &	.....	13/32 & 13/32 &	4 7/8 & 4 7/8 &	9/32 & 9/32 &	
725	.....	1/4 & 1/4 &	5/16 & 1/4 &	5/16 & 9/16 &	4 7/8 & 4 7/8 &	9/32 & 9/32 &	
725A	.....	1/4 & 1/4 &	3/8 & 1/4 &	5/16 & 9/16 &	4 7/8 & 4 7/8 &	9/32 & 9/32 &	.35
725B	.....	5/16 & 1/4 &	3/8 & 1/4 &	5/16 & 9/16 &	4 7/8 & 4 7/8 &	9/32 & 9/32 &	
25	1/4 & 1/4 &	5/16 & 5/16 &	3/8 & 1/4 &	5/16 & 9/16 &	4 7/8 & 4 7/8 &	9/32 & 9/32 &	
726	1/4 & 1/4 &	5/16 & 5/16 &	3/8 & 1/4 &	5/16 & 9/16 &	5 7/8 & 5 7/8 &	11/32 & 11/32 &	
26	1/4 & 1/4 &	3/8 & 5/16 &	3/8 & 1/4 &	5/16 & 9/16 &	5 7/8 & 5 7/8 &	11/32 & 11/32 &	
727	.....	3/8 & 3/8 &	3/16 & 3/8 &	3/16 & 9/16 &	5 7/8 & 5 7/8 &	11/32 & 11/32 &	.40
27C	.....	3/8 & 3/8 &	3/8 & 3/8 &	3/16 & 9/16 &	5 7/8 & 5 7/8 &	11/32 & 11/32 &	
27	5/16 & 5/16 &	3/8 & 3/8 &	.....	19/32 & 19/32 &	5 7/8 & 5 7/8 &	11/32 & 11/32 &	
728	.....	3/8 & 3/8 &	1/2 & 3/8 &	3/16 & 9/16 &	6 7/8 & 6 7/8 &	3/8 & 3/8 &	
28	3/16 & 3/16 &	3/8 & 3/16 &	1/2 & 3/8 &	3/16 & 9/16 &	6 7/8 & 6 7/8 &	3/8 & 3/8 &	
729	.....	1/16 & 1/16 &	1/2 & 3/16 &	5/8 & 9/16 &	6 7/8 & 6 7/8 &	2 7/8 & 2 7/8 &	.50
28S	.....	1/16 & 1/16 &	3/16 & 3/16 &	5/8 & 9/16 &	6 7/8 & 6 7/8 &	2 7/8 & 2 7/8 &	
29	3/8 & 3/8 &	3/16 & 3/16 &	.....	11/16 & 11/16 &	6 7/8 & 6 7/8 &	3/8 & 3/8 &	
730	.....	1/16 & 1/16 &	9/16 & 9/16 &	5/8 & 9/16 &	7 7/8 & 7 7/8 &	13/32 & 13/32 &	
730A	.....	1/2 & 1/2 &	1/16 & 9/16 &	9/16 & 9/16 &	7 7/8 & 7 7/8 &	13/32 & 13/32 &	
30	3/8 & 3/8 &	1/2 & 1/2 &	5/8 & 9/16 &	11/16 & 9/16 &	7 7/8 & 7 7/8 &	13/32 & 13/32 &	
731	.....	1/2 & 1/2 &	9/16 & 9/16 &	9/14 & 9/16 &	7 7/8 & 7 7/8 &	13/32 & 13/32 &	.60
731A	.....	1/2 & 1/2 &	5/8 & 9/16 &	9/16 & 9/16 &	7 7/8 & 7 7/8 &	13/32 & 13/32 &	
31	7/16 & 7/16 &	1/2 & 1/2 &	5/8 & 9/16 &	25/32 & 13/16 &	7 7/8 & 7 7/8 &	13/32 & 13/32 &	
731B	.....	1/2 & 1/2 &	9/16 & 9/16 &	9/16 & 13/16 &	7 7/8 & 7 7/8 &	13/32 & 13/32 &	

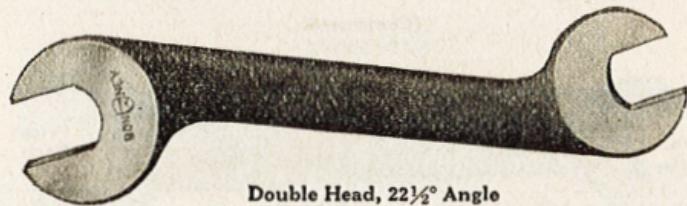
DOUBLE HEAD ENGINEERS' WRENCHES

(Continued)

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thickness of Head	Price Each
32	7/16 & 9/16			25/32 & 31/32	8 3/4	15/32	
732		1/2 & 3/4	1/2 & 11/16	3/4 & 1	8 3/4	15/32	
732A		9/16 & 5/8	9/16 & 11/16	13/16 & 1	8 3/4	15/32	
33A	1/2 & 9/16	5/8 & 7/8	9/16 & 7/8	5/8 & 15/16	8 3/4	15/32	
33	1/2 & 9/16	5/8 & 7/8	9/16 & 11/16	7/8 & 1	8 3/4	15/32	
733	1/2 &	5/8 & 3/4	9/16 & 11/16	7/8 & 1	8 3/4	15/32	
33C		5/8 & 3/4	5/8 & 11/16	13/16 & 1	8 3/4	15/32	
34	1/2 & 5/8	5/8 & 7/8	9/16 & 7/8	7/8 & 13/16	9 3/4	17/32	
734	1/2 &	5/8 & 7/8	9/16 & 7/8	5/8 & 1 1/8	9 3/4	17/32	
34A		5/8 & 7/8	5/8 & 9/16	15/16 & 1 1/16	9 3/4	17/32	.95
35	9/16 & 5/8			31/32 & 1 1/16	9 3/4	17/32	
735		3/4 & 7/8	11/16 &	1 & 1 1/8	9 3/4	17/32	
36	5/8 & 3/4			7/8 31/32 & 1 1/4	11 3/8	19/32	
736		3/4 & 1	11/16 & 7/8	1 & 1 1/4	11 3/8	19/32	
37	5/8 & 3/4			9/16 & 1 1/4	11 3/8	19/32	
737		3/4 & 1	7/8 & 1	7/8 & 1 1/4	11 3/8	19/32	
38	5/8 & 7/8			3/4 & 1	11 3/8 & 13/16	11 1/16	
738		1/2 & 1 1/8		13/8 & 1 3/8	13 1/2	13/16	
739	3/4 &	1	1 & 1 1/8	7/8 &	13/4 & 1 3/8	13 1/2	
39	3/4 & 7/8	1		2/8 & 1	13/4 & 1 1/16	13 1/2	
739A	3/4 &	1	1 & 1 1/4	7/8 & 1	13/4 & 1 1/2	13 1/2	
739B		1 1/8 & 1 1/4		13/8 & 1 1/2	13 1/2	13/16	
40	3/4 & 1	1	1 & 1 3/8	7/8 & 1 1/8	13/4 & 1 5/8	15 1/2	
41	5/8 & 1			1 1/8 & 1 1/8	15 1/2	13/16	2.60
42	7/8 & 1 1/8			17/16 & 1 1/8	15 1/2	13/16	
43	1 & 1 1/8	1 1/8 &	1	1 1/4 & 1 1/4	17/16 & 1 13/16	17	
44	1 & 1 1/4	1 1/8 &	1	1 1/6 & 1 1/6	17	13/16	3.60
45	1 1/8 & 1 1/4	1 1/8 &	1	1 1/4 & 1 3/8	19	13/16	4.90
46	1 1/8 & 1 3/8			1 1/4 & 1 1/2	21	13/16	7.15
47	1 1/4 & 1 3/8			1 3/8 & 1 1/2	21	13/16	
48	1 1/4 & 1 1/2			2 & 2 3/8	23	13/8	9.55
49	1 3/8 & 1 1/2			23/16 & 2 3/8	23	13/8	
50	1 3/8 & 1 5/8			23/16 & 2 3/8	25	13/8	12.30
51	1 1/2 & 1 5/8			23/8 & 2 3/16	25	13/8	13.50
52	1 1/2 & 1 3/4			23/8 & 2 3/4	27	13/8	15.00
53	1 3/8 & 1 3/4			29/16 & 2 3/4	27	13/8	16.40
54	1 3/8 & 2			29/16 & 3 1/8	31	11/2	19.45
55	1 3/4 & 2			2 3/4 & 3 1/8	32	11/2	21.15
56	1 3/4 & 2 1/4			2 3/4 & 3 1/2	34	11/2	27.30
57	2 & 2 1/4			3 1/8 & 3 1/2	36	11/2	32.00

TEXTILE TYPE WRENCHES

CARBON STEEL

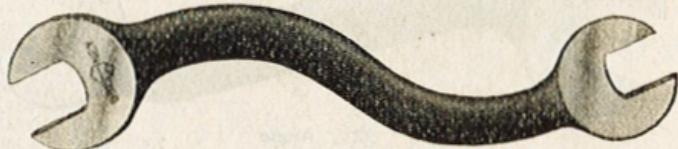


Double Head, 22 1/2° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
550B	1/8 & 1/4	...	...	5/16 & 1/2	4 3/4	1/2	
550AS	...	3/16 & 1/4	...	5/8 & 1 1/2	4 3/4	1/2	
550D	...	3/16 & 1/4	...	5/8 & 1 1/2	4 3/4	1/2	
550	3/16 & 1/4	...	...	13/32 & 1 1/2	4 3/4	1/2	
550A	3/16 & 5/16	1/4 & 5/16	1/4 & 5/16	13/32 & 1 1/2	4 3/4	1/2	
550C	...	1/4 & 5/16	1/4 & 5/16	21/32 & 1 1/2	4 3/4	1/2	
551AS	1/4 & 5/16	5/16 & 3/8	5/16 & 3/8	1 1/2 & 9/16	5 3/4	5/16	
551B	1/4 & 5/16	...	...	1 1/2 & 13/32	5 3/4	5/16	
551D	...	5/16 & 3/16	5/16 & 3/16	1 1/2 & 5/8	5 3/4	5/16	
551A	1/4 & 3/8	...	...	1 1/2 & 11/16	5 3/4	5/16	
551C	...	3/8 & 7/16	3/8 & 7/16	9/16 & 5/8	5 3/4	5/16	
551E	...	3/8 & 7/16	3/8 & 7/16	9/16 & 11/16	5 3/4	5/16	
551	5/16 & 3/8	...	...	13/32 & 11/16	5 3/4	5/16	
552B	3/16 & 5/16	...	...	19/32 & 23/32	7	11/32	
552AS	...	3/8 & 7/16	7/16 & 11/16	5/8 & 11/16	7	11/32	
552D	...	7/16 & 1/2	7/16 & 1/2	5/8 & 9/16	7	11/32	
552A	3/16 & 1/2	...	...	11/16 & 25/32	7	11/32	
552	3/8 & 1/2	...	...	11/16 & 7/8	7	11/32	
552C	...	1/2 & 5/8	1/2 & 5/8	3/4 & 7/8	7	11/32	
553D	...	1/2 & 3/4	1/2 & 11/16	3/4 & 1	8 1/4	3/8	
553A	1/16 & 1/2	...	...	25/32 & 7/8	8 1/4	3/8	
553	3/16 & 5/16	...	...	25/32 & 31/32	8 1/4	3/8	
553C	...	9/16 & 3/4	9/16 & 3/4	13/16 & 1	8 1/4	3/8	
553E	1/2 & 5/8	...	9/16 & 5/8	2 1/8 & 15/16	8 1/4	3/8	
553B	1/2 & 9/16	5/8 & 9/16	9/16 & 9/16	2 1/8 & 31/32	8 1/4	3/8	
553AS	...	1/2 & 9/16	1/2 & 9/16	3/4 & 13/16	8 1/4	3/8	
554AS	1/2 & 5/8	5/8 & 3/4	9/16 & 11/16	2 1/8 & 1	9 1/2	7/16	
554A	1/2 & 5/8	5/8 & 3/4	9/16 & 9/16	2 1/8 & 1 1/16	9 1/2	7/16	
554C	1/2 & 5/8	5/8 & 7/8	9/16 & 11/16	2 1/8 & 1 1/8	9 1/2	7/16	
554D	...	5/8 & 7/8	5/8 & 11/16	1 1/8 & 1	9 1/2	7/16	
554	9/16 & 5/8	...	...	31/32 & 1 1/8	9 1/2	7/16	
554B	9/16 & 3/4	...	...	31/32 & 1 1/4	9 1/2	7/16	
555AS	5/8 & 3/4	...	5/8 & 11/16	1 1/8 & 1 1/4	11	3/2	
555	5/8 & 3/8	...	5/8 & 1	11/16 & 1 1/8	11	3/2	
555B	5/8 & 3/4	1/8 & 1	5/8 & 1	11/8 & 1 1/4	11	3/2	
555A	3/4 & 5/8	1 &	5/8 & 1	1 1/4 & 1 1/16	11	3/2	

LIGHT SERVICE WRENCHES

CARBON STEEL



22½° Angle

New No.	Old No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Openings Milled	Extreme Lgth.	Thickness Head	Price Each.
75C	500C	& 1/8	& 1/8	1/4 & 5/16	1/4 & 5/16	6 1/4	7/16	
75B	500A	3/16 & 1/4	3/16 & 1/4	5/16 & 3/8	2/8 & 7/16	6 1/4	7/16	
75A	500	3/16 & 1/4	3/16 & 1/4	5/16 & 5/16	3/8 & 1/2	6 1/4	7/16	
75	500B	3/16 & 1/4	3/16 & 1/4	5/16 & 5/16	13/32 & 1/2	6 1/4	7/16	
77S	501D	& 1/4	1/4 & 5/16	5/16 & 5/16	2/16 & 1/2	7 1/8	7/16	
77C	501B	1/4 & 5/16	1/4 & 5/16	5/16 & 5/16	7/16 & 9/16	7 1/8	7/16	
77B	501A	1/4 & 5/16	1/4 & 5/16	5/16 & 5/16	1/2 & 9/16	7 1/8	7/16	
77	501	1/4 & 5/16	1/4 & 5/16	5/16 & 5/16	1/2 & 7/8	7 1/8	7/16	
79F	502E	5/16 & 1/2	5/16 & 1/2	5/16 & 1/2	3/2 & 3/4	8 1/4	5/16	
79B	502C	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	1/2 & 13/32	8 1/4	5/16	
79S	502D	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	9/16 & 13/32	8 1/4	5/16	
79A	502A	& 3/8	3/8 & 7/16	3/8 & 7/16	9/16 & 11/16	8 1/4	5/16	
79E	502F	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	9/16 & 3/4	8 1/4	5/16	
79D	502G	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	19/32 & 11/16	8 1/4	5/16	
79	502B	5/16 & 3/8	7/16 & 7/16	7/16 & 7/16	5/8 & 11/16	8 1/4	5/16	
79C	502	5/16 & 3/8	7/16 & 7/16	7/16 & 7/16	5/8 & 7/8	8 1/4	5/16	
81E	503E	& 3/2	7/16 & 7/16	7/16 & 7/16	5/8 & 7/8	9 1/4	3/8	
81C	503C	3/8 & 1/2	7/16 & 1/2	7/16 & 1/2	11/16 & 3/4	9 1/4	3/8	
81	503D	3/8 & 1/2	7/16 & 1/2	7/16 & 1/2	11/16 & 21/32	9 1/4	3/8	
81B	503A	1/2 & 5/8	7/16 & 1/2	7/16 & 1/2	3/4 & 13/16	9 1/4	3/8	
81A	503	1/2 & 5/8	7/16 & 1/2	7/16 & 1/2	3/4 & 7/8	9 1/4	3/8	
81D	503B	7/16 & 3/2	7/16 & 3/2	7/16 & 3/2	75/32 & 7/8	9 1/4	3/8	
83	504C	1/2 & 5/8	7/16 & 1/2	7/16 & 1/2	27/32 & 15/16	10 3/8	7/16	
83D	504E	1/2 & 5/8	7/16 & 1/2	7/16 & 1/2	7/8 & 15/16	10 3/8	7/16	
83E	504D	1/2 & 5/8	7/16 & 1/2	7/16 & 1/2	3/4 & 1	10 3/8	7/16	
83B	504	1/2 & 5/8	7/16 & 1/2	7/16 & 1/2	7/8 & 1	10 3/8	7/16	
83C	504B	1/2 & 5/8	7/16 & 1/2	7/16 & 1/2	7/8 & 13/16	10 3/8	7/16	
83A	504A	1/2 & 5/8	7/16 & 1/2	7/16 & 1/2	15/16 & 1	10 3/8	7/16	
85	505	3/4 & 7/8	11/16 & 1/2	11/16 & 1/2	1 & 11/16	12	1/2	
85A	505A	3/4 & 7/8	11/16 & 1/2	11/16 & 1/2	7/8 & 1 1/4	12	1/2	
85C	505B	5/8 & 7/8	11/16 & 1/2	11/16 & 1/2	11/16 & 1/2	12	1/2	
85B	505C	5/8 & 7/8	11/16 & 1/2	11/16 & 1/2	11/8 & 1/4	12	1/2	

DOUBLE HEAD "S" WRENCHES

CARBON STEEL



22 1/2° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
661D	1/8 & 3/16	1/8 & 3/16	.....	5/16 & 3/8	4	1/4	
661A	1/8 & 3/16	1/8 & 3/16	.....	5/16 & 13/32	4	1/4	
661E	1/8 & 1/4	1/8 & 1/4	.....	5/16 & 7/16	4	1/4	
661B	1/8 & 1/4	1/8 & 5/16	.....	5/16 & 1/2	4	1/4	
661F	.....	3/16 & 1/4	.....	3/8 & 5/16	4	1/4	
661G	.....	3/16 & 5/16	.....	3/8 & 1/2	4	1/4	
661H	3/16 & 3/8	3/16 & 3/8	.....	3/8 & 9/16	4	1/4	
661C	3/16 & 1/4	3/16 & 3/16	.....	13/32 & 1/2	4	1/4	
662A	3/16 & 5/16	1/4 & 5/16	.....	13/32 & 19/32	5	5/16	\$0.30
662D	.....	1/4 & 5/16	.....	7/16 & 1/2	5	5/16	
662E	.....	1/4 & 3/8	.....	7/16 & 9/16	5	5/16	
662F	1/4 & 5/16	5/16 & 3/8	.....	1/2 & 9/16	5	5/16	
662B	1/4 & 5/16	5/16 & 5/16	.....	1/2 & 19/32	5	5/16	
662G	1/4 & 3/8	3/16 & 3/16	.....	1/2 & 9/16	5	5/16	
662C	1/4 & 3/8	3/16 & 3/16	.....	1/2 & 11/16	5	5/16	
662H	1/4 & 1/2	3/16 & 1/2	.....	1/2 & 3/4	5	5/16	
663D	3/8 & 3/16	3/16 & 3/16	.....	9/16 & 5/8	6 1/4	3/8	
663E	3/8 & 1/2	3/16 & 1/2	.....	9/16 & 3/4	6 1/4	3/8	
663A	3/16 & 3/8	.....	.....	19/32 & 11/16	6 1/4	3/8	
663B	3/16 & 1/16	.....	.....	19/32 & 25/32	6 1/4	3/8	
663F	.....	1/16 & 1/2	1/16 & 1/2	5/8 & 3/4	6 1/4	3/8	
663G	.....	1/16 & 9/16	1/16 & 9/16	5/8 & 13/16	6 1/4	3/8	
663H	.....	1/16 & 5/8	1/16 & 9/16	5/8 & 7/8	6 1/4	3/8	
663C	3/8 & 1/16	1/16 & 5/8	.....	11/16 & 25/32	6 1/4	3/8	
664A	3/8 & 3/2	.....	.....	11/16 & 7/8	7 1/2	7/16	
664D	1/2 & 9/16	1/2 & 9/16	1/2 & 9/16	3/4 & 13/16	7 1/2	7/16	
664E	1/2 & 1/2	1/2 & 1/2	1/2 & 1/2	3/4 & 7/8	7 1/2	7/16	
664G	1/2 & 5/8	1/2 & 5/8	1/2 & 5/8	3/4 & 1	7 1/2	7/16	
664B	1/16 & 1/2	1/2 & 5/8	1/2 & 5/8	23/32 & 7/8	7 1/2	7/16	
664C	1/16 & 9/16	1/2 & 5/8	1/2 & 5/8	23/32 & 31/32	7 1/2	7/16	
664F	1/2 & 3/2	3/16 & 5/8	1/2 & 5/8	13/16 & 7/8	7 1/2	7/16	
665D	9/16 & 3/4	9/16 & 3/4	9/16 & 11/16	13/16 & 1	9	1/2	
665A	3/2 & 9/16	3/8 & 9/16	9/16 & 11/16	5/8 & 31/32	9	1/2	
665E	3/2 & 9/16	5/8 & 3/4	9/16 & 11/16	5/8 & 1	9	1/2	
665B	3/2 & 5/8	5/8 & 3/4	9/16 & 3/4	5/8 & 11/16	9	1/2	
665F	3/2 & 5/8	5/8 & 7/8	9/16 & 7/8	5/8 & 13/8	9	1/2	
665C	9/16 & 5/8	.....	.....	31/32 & 13/16	9	1/2	1.00

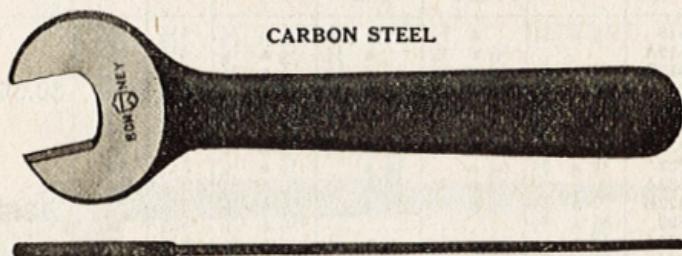
DOUBLE HEAD "S" WRENCHES

(Continued)

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thickness of Head	Price Each
666A	$\frac{5}{16}$ & $\frac{3}{4}$	..... & 1	..... & $\frac{7}{8}$	$3\frac{1}{2}$ & $1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{9}{16}$	
666G	.....	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{1}{16}$ & $1\frac{1}{8}$	1 & $1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{9}{16}$	
666D	.....	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{1}{16}$ & $1\frac{1}{8}$	1 & $1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{9}{16}$	
666B	$\frac{5}{8}$ & $\frac{3}{4}$	..... & 1	..... & $\frac{7}{8}$	$1\frac{1}{16}$ & $1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{9}{16}$	
666C	$\frac{5}{8}$ & $\frac{7}{8}$	.....	..... & 1	$1\frac{1}{16}$ & $1\frac{1}{16}$	$10\frac{1}{2}$	$\frac{9}{16}$	
666E	.....	$\frac{3}{4}$ & 1	..... & $\frac{7}{8}$	$1\frac{1}{8}$ & $1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{9}{16}$	
666F	.....	$\frac{7}{8}$ & $1\frac{1}{8}$	.....	$1\frac{1}{8}$ & $1\frac{3}{4}$	$10\frac{1}{2}$	$\frac{9}{16}$	
667D	$\frac{3}{4}$ & 1	1 & $1\frac{1}{8}$	..... & $\frac{7}{8}$	$1\frac{1}{4}$ & $1\frac{3}{8}$	12	$\frac{5}{8}$	
667A	$\frac{3}{4}$ & $\frac{7}{8}$	1 & 1	..... & 1	$1\frac{1}{4}$ & $1\frac{3}{16}$	12	$\frac{5}{8}$	
667E	$\frac{3}{4}$ & 1	1 & $1\frac{1}{4}$	..... & $\frac{7}{8}$	$1\frac{1}{4}$ & $1\frac{1}{2}$	12	$\frac{5}{8}$	
667B	$\frac{3}{4}$ & 1	1 & $1\frac{3}{8}$	..... & $1\frac{1}{8}$	$1\frac{1}{4}$ & $1\frac{5}{8}$	12	$\frac{5}{8}$	
667F	.....	$1\frac{1}{8}$ & $1\frac{1}{4}$	.....	$1\frac{1}{8}$ & $1\frac{1}{2}$	12	$\frac{5}{8}$	
667C	$\frac{7}{8}$ & 1	1 & $1\frac{3}{8}$	..... & $1\frac{1}{8}$	$1\frac{1}{16}$ & $1\frac{5}{8}$	12	$\frac{5}{8}$	
668A	$\frac{7}{8}$ & $1\frac{1}{8}$	.....	..... & 1	$1\frac{1}{16}$ & $1\frac{3}{16}$	14	$1\frac{1}{16}$	
668B	1 & $1\frac{1}{8}$	$1\frac{1}{8}$ & 1	..... & $1\frac{1}{4}$	$1\frac{1}{8}$ & $1\frac{1}{4}$	14	$1\frac{1}{16}$	
668C	1 & $1\frac{1}{4}$	$1\frac{3}{8}$ & 1	..... & $1\frac{1}{8}$	$1\frac{5}{8}$ & 2	14	$1\frac{1}{16}$	
668D	$1\frac{1}{8}$ & $1\frac{1}{4}$	.....	..... & $1\frac{1}{8}$	$1\frac{1}{16}$ & 2	14	$1\frac{1}{16}$	

THIN CHECK NUT WRENCHES

CARBON STEEL

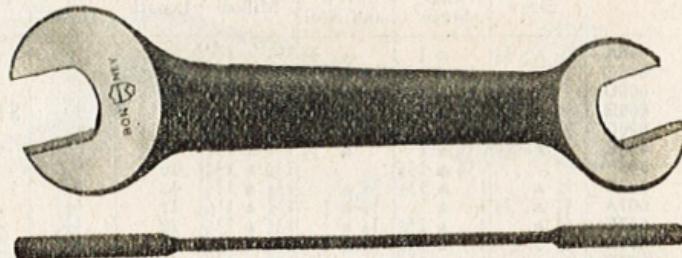


15° Angle, Single Head, Very Thin for Check, Jam or Lock Nuts

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thickness of Head	Price Each
601	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{3}{2}$	4	$\frac{5}{32}$	\$0.25
602	$\frac{5}{16}$	.....	.....	$1\frac{1}{22}$	$4\frac{1}{2}$	$1\frac{1}{64}$	.30
603	$\frac{3}{8}$	.....	.....	$1\frac{1}{16}$	$5\frac{1}{2}$	$\frac{3}{16}$	.35
604	$\frac{7}{16}$	.....	.....	$2\frac{31}{32}$	$6\frac{1}{4}$	$\frac{1}{32}$	.45
605	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{7}{8}$	7	$\frac{1}{4}$	.50
606	$\frac{9}{16}$	.....	.....	$3\frac{1}{22}$	8	$\frac{9}{64}$	.60
607	$\frac{5}{8}$	.....	$\frac{3}{4}$	$1\frac{1}{16}$	9	$\frac{5}{16}$	.75
608	$\frac{3}{4}$	1	$\frac{7}{8}$	$1\frac{1}{4}$	10	$\frac{3}{8}$	.95
609	$\frac{7}{8}$	.....	1	$1\frac{1}{16}$	$11\frac{1}{2}$	$\frac{1}{16}$	1.25
610	1	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	13	$\frac{1}{2}$	1.75

## THIN CHECK NUT WRENCHES

CARBON STEEL

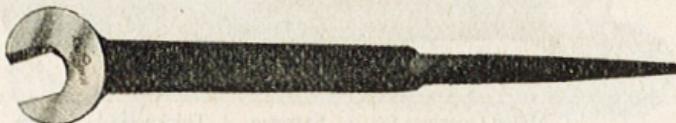


"Thin" Double Head, 15° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Screw and Nut	Open- ings Milled	Ex- treme Length	Thick- ness Head	Price Each
819	$\frac{3}{16}$ & $\frac{1}{4}$	& $\frac{5}{16}$	& $\frac{5}{16}$	$13\frac{1}{2}$ & $1\frac{1}{2}$	$4\frac{1}{2}$	$\frac{5}{16}$	
819A		$\frac{3}{16}$ & $\frac{1}{4}$	& $\frac{1}{4}$	$2\frac{1}{8}$ & $2\frac{1}{16}$	$4\frac{1}{2}$	$\frac{5}{32}$	
819B	& $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$1\frac{1}{2}$ & $1\frac{1}{2}$	$4\frac{1}{2}$	$\frac{5}{32}$	
819C	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$1\frac{1}{2}$ & $2\frac{1}{16}$	$4\frac{1}{2}$	$\frac{5}{32}$	
820	$\frac{3}{16}$ & $\frac{5}{16}$			$13\frac{1}{2}$ & $19\frac{1}{2}$	$4\frac{1}{2}$	$\frac{5}{32}$	
821	$\frac{1}{4}$ & $\frac{3}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$1\frac{1}{2}$ & $19\frac{1}{2}$	$4\frac{1}{2}$	$\frac{5}{32}$	
821A		$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{4}$ & $\frac{3}{8}$	$1\frac{1}{2}$ & $9\frac{1}{16}$	$4\frac{1}{2}$	$\frac{5}{32}$	
822	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$1\frac{1}{2}$ & $11\frac{1}{16}$	$5\frac{1}{2}$	$\frac{5}{16}$	
822A		$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$1\frac{1}{2}$ & $9\frac{1}{8}$	$5\frac{1}{2}$	$\frac{5}{16}$	
822B	& $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$9\frac{1}{16}$ & $11\frac{1}{16}$	$5\frac{1}{2}$	$\frac{5}{16}$	
823	$\frac{5}{16}$ & $\frac{3}{8}$			$19\frac{1}{2}$ & $2\frac{1}{16}$	$5\frac{1}{2}$	$\frac{5}{16}$	
823A	$\frac{1}{4}$ & $\frac{3}{16}$	$\frac{5}{16}$ & $\frac{3}{16}$	$\frac{5}{16}$ & $\frac{3}{16}$	$1\frac{1}{2}$ & $5\frac{1}{8}$	$5\frac{1}{2}$	$\frac{5}{16}$	
824	$\frac{5}{16}$ & $\frac{3}{16}$			$13\frac{1}{2}$ & $25\frac{1}{2}$	$5\frac{1}{2}$	$\frac{5}{16}$	
825	$\frac{3}{8}$ & $\frac{1}{16}$			$1\frac{1}{16}$ & $25\frac{1}{2}$	$7$	$\frac{7}{32}$	
825A		$\frac{3}{2}$ & $\frac{5}{8}$	$\frac{3}{2}$ & $\frac{5}{8}$	$3\frac{1}{4}$ & $7\frac{1}{8}$	$7$	$\frac{7}{32}$	
825B	& $\frac{3}{8}$	$\frac{7}{16}$ & $\frac{5}{8}$	$\frac{7}{16}$ & $\frac{5}{8}$	$5\frac{1}{8}$ & $11\frac{1}{16}$	$7$	$\frac{7}{32}$	
825C		$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$5\frac{1}{8}$ & $11\frac{1}{16}$	$7$	$\frac{7}{32}$	
826	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{5}{8}$	$1\frac{1}{16}$ & $7\frac{1}{8}$	$7$	$\frac{7}{32}$	
827	$\frac{7}{16}$ & $\frac{1}{2}$			$25\frac{1}{2}$ & $2\frac{1}{8}$	$7$	$\frac{7}{32}$	
828	$\frac{7}{16}$ & $\frac{5}{16}$			$2\frac{1}{2}$ & $21\frac{1}{16}$	$8\frac{1}{2}$	$\frac{7}{32}$	
828A				$15\frac{1}{2}$ & $1$	$8\frac{1}{2}$	$\frac{7}{32}$	
829	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	$7\frac{1}{8}$ & $31\frac{1}{2}$	$8\frac{1}{2}$	$\frac{7}{32}$	
830	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{9}{16}$ & $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{1}{2}$	$7\frac{1}{8}$ & $11\frac{1}{16}$	$8\frac{1}{2}$	$\frac{7}{32}$	
831	$\frac{9}{16}$ & $\frac{5}{8}$			$31\frac{1}{2}$ & $11\frac{1}{16}$	$10\frac{1}{2}$	$\frac{9}{32}$	
831A	& $\frac{3}{4}$	$\frac{3}{4}$ & $1$	$11\frac{1}{16}$ & $1\frac{1}{4}$	$1$ & $1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{9}{32}$	
831B	& $\frac{3}{4}$	$\frac{1}{2}$ & $1$	$\frac{1}{2}$ & $1$	$1\frac{1}{8}$ & $1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{9}{32}$	
832	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{5}{8}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{1}{2}$	$1\frac{1}{8}$ & $1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{9}{32}$	
833	$\frac{5}{8}$ & $\frac{3}{4}$			$1\frac{1}{8}$ & $1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{9}{32}$	
834	$\frac{5}{8}$ & $\frac{3}{8}$			$1\frac{1}{16}$ & $17\frac{1}{16}$	$12\frac{1}{2}$	$\frac{13}{32}$	
835	$\frac{3}{4}$ & $\frac{1}{8}$	$1$ & $\frac{1}{8}$	$\frac{3}{4}$ & $1$	$1\frac{1}{4}$ & $17\frac{1}{16}$	$12\frac{1}{2}$	$\frac{13}{32}$	
836	$\frac{3}{4}$ & $1$	$1$ & $1\frac{1}{8}$	$\frac{1}{6}$ & $\frac{1}{8}$	$1\frac{1}{4}$ & $1\frac{1}{8}$	$12\frac{1}{2}$	$\frac{13}{32}$	
							<b>1.15</b>
							<b>1.75</b>

CONSTRUCTION WRENCHES.

CARBON STEEL

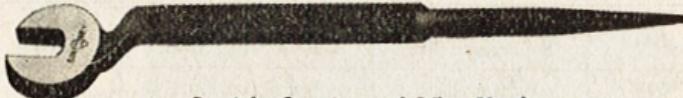


15° Angle

No.	For U. S. Standard Nut; Bolt Size	Openings Finished	Length	Thickness of Head	Price Each
450	3/8	11 1/8	9 1/2	7/16	
451	7/16	25/32	9 1/2	7/16	\$0.60
452	1/2	7/8	11	1/2	
453	9/16	31/32	11	1/2	.80
454	5/8	1 1/8	13	9/16	1.10
455	5/8	1 1/4	15	5/8	1.50
456	7/8	1 7/8	17	11/16	2.05
457	1	1 5/8	19	3/4	2.85
458	1 1/4	1 13/16	21	7/8	
459	1 1/4	2	21	7/8	4.10

STRUCTURAL WRENCHES

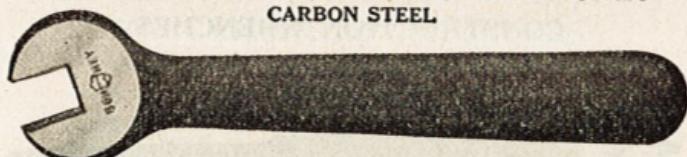
CARBON STEEL



Straight Opening and Offset Head

No.	For U. S. Standard Nut; Bolt Size	Openings Finished	Length	Thickness of Head	Handle Offset	Price Each
480	3/8	23/32	9 1/2	7/16	7/8	
481	7/16	13/16	9 1/2	7/16	7/8	\$0.70
482	1/2	29/32	11	1/2	1	
483	9/16	1	11	1/2	1	.95
484	5/8	13/32	13	5/8	1 1/8	1.35
485	3/4	1 13/32	15	11/16	1 1/4	1.85
486	7/8	1 1/2	17	3/4	1 5/16	2.45
487	1	1 11/16	19	15/16	1 3/8	3.40
488	1 1/4	1 7/8	21	7/8	1 3/8	
489	1 1/4	2 1/16	21	7/8	1 1/2	5.10

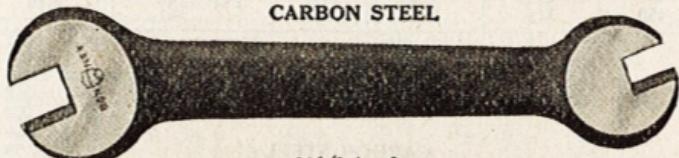
SINGLE HEAD SET SCREW WRENCHES  
CARBON STEEL



22 1/2° Angle

No.	Milled Openings for Set Screws: Size	Extreme Length	Thickness Head	Price Each
280	3/16	3	3/16	\$0.20
281	1/4	3 3/8	1/4	.25
282	5/16	4 1/4	5/16	.30
283	3/8	5	11/32	.35
284	7/16	5 3/4	3/8	.40
285	1/2	6 5/8	7/16	.50
286	9/16	7 1/2	1/2	.65
287	5/8	8 1/2	9/16	.75
288	7/8	9 1/2	5/8	.95
289	1	10 1/2	11/16	1.15
290	1 1/8	11 1/2	3/4	1.50
291	1 1/8	12 1/2	13/16	1.90

DOUBLE HEAD SET SCREW WRENCHES  
CARBON STEEL



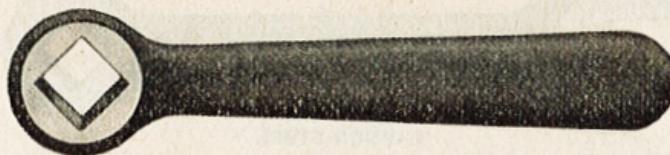
22 1/2° Angle

No.	Milled Openings for Set Screws: Size	Extreme Length	Thickness Head	Price Each
523	3/16 & 1/4	3 1/2	1/2	\$0.25
524	3/16 & 5/16	4 1/4	9/32	.35
525	1/4 & 3/16	4 1/4	9/32	.35
526	1/4 & 3/8	5	11/32	.40
527	5/16 & 3/8	5	11/32	.40
528	5/16 & 7/16	5 3/4	3/8	.50
529	3/8 & 7/16	5 3/4	3/8	.50
530	5/8 & 1/2	6 5/8	7/16	.60
531	7/16 & 1/2	6 5/8	7/16	.60
532	7/16 & 9/16	7 1/2	1/2	.75
533	1/2 & 9/16	7 1/2	1/2	.75
534	1/2 & 5/8	8 1/2	9/16	.90
535	9/16 & 5/8	8 1/2	9/16	.90
536	9/16 & 3/4	9 3/4	5/8	1.10
537	5/8 & 3/4	9 3/4	5/8	1.10
538	5/8 & 7/8	11	11/16	1.35
539	3/4 & 7/8	11	11/16	1.35
540	3/4 & 1	12 1/2	3/4	1.75
541	7/8 & 1	12 1/2	3/4	1.75
542	7/8 & 1 1/8	14	13/16	2.40
543	1 & 1 1/8	14	13/16	2.40

SINGLE HEAD BOX WRENCHES

SQUARE OPENING

CARBON STEEL



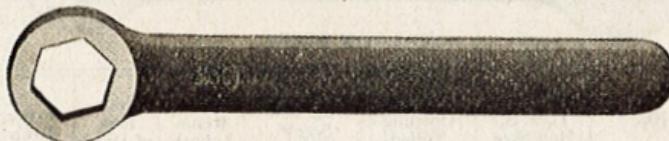
22 1/2° Angle

No.	For Set Screw: Size	Extreme Length	Thickness Head	Outside Diameter Head	Price Each
580	3/16	3	1/4	1 1/2	\$0.20
581	1/4	3 3/8	9/32	5/8	.25
582	5/16	3 3/4	5/16	11/32	.30
583	3/8	4 1/4	5/8	27/32	.35
584	7/16	4 7/8	7/16	31/32	.40
585	1/2	5 1/2	15/32	11 1/16	.45
586	9/16	6 1/4	1/2	13/16	.55
587	5/8	7	9/16	15/16	.70
588	3/4	8	5/8	1 1/16	.85
589	7/8	9	11/16	1 25/32	1.10
590	1	10	3/4	2	1.45

SINGLE HEAD BOX WRENCHES

HEXAGON OPENING

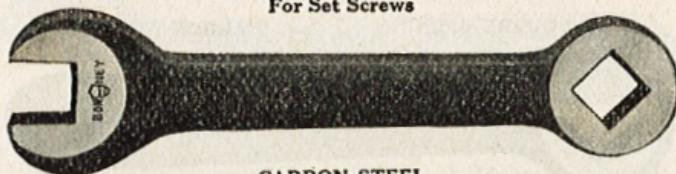
CARBON STEEL



No.	U. S. S. Bolt Size	Short Diameter Opening	Extreme Length	Thickness Head	Outside Diameter Head	Price Each
303	3/8	45/64	6	5/16	1 1/4	\$0.40
304	7/16	51/64	7	11/32	1 3/8	.50
305	1/2	57/64	8	3/8	1 1/2	.55
306	9/16	63/64	9	7/16	1 5/8	.70
307	5/8	13/64	10	1/2	1 3/4	.85
308	3/4	117/64	11 1/2	9/16	2 1/16	1.05
309	7/8	129/64	13	11/16	2 3/8	1.40
310	1	121/32	15	3/4	2 5/8	1.90
311	1 1/8	127/32	17	13/16	2 7/8	2.50
312	1 1/4	21/32	19	7/8	3 1/4	3.25
313	1 3/8	27/32	21	15/16	3 1/2	4.10
314	1 1/2	213/64	23	1	3 3/4	5.10

DOUBLE HEAD TOOL POST WRENCHES

For Set Screws

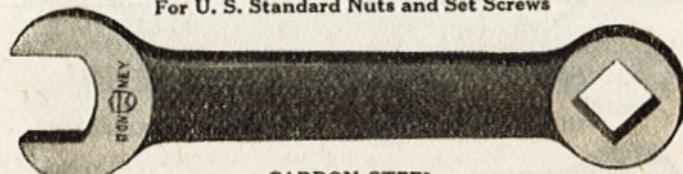


CARBON STEEL

No.	Open End for Set Screw Size	Closed End for Set Screw Size	Ex- treme Length	Thick- ness of Head	Price Each
201	7/16	7/16	5 1/2	1/2	\$0.75
202	1/2	1/2	6	9/16	.85
203	9/16	1/2	6	9/16	
204	9/16	9/16	6	9/16	
205	5/8	5/8	7	5/8	
206	1 1/16	5/8	7	5/8	1.00
207	1 1/16	1 1/16	7	5/8	
208	3/4	3/4	7 5/8	1 1/16	1.10

DOUBLE HEAD TOOL POST WRENCHES

For U. S. Standard Nuts and Set Screws



CARBON STEEL

No.	Open End U. S. S. Bolt Size	Open End Opening Milled	Closed End for Set Screw: Size	Ex- treme Length	Thick- ness of Head	Price Each
562	3/8	11/16	9/16	6 1/2	9/16	\$0.90
563	1/2	7/8	7/16	7	5/8	
563B	1/2	7/8	1/2	7	5/8	
563C	1/2	7/8	9/16	7	5/8	
563D	1/2	7/8	5/8	7	5/8	
564	5/8	11/16	5/8	7 1/2	5/8	1.10
565	5/8	11/16	5/8	8	11/16	1.30
566	3/4	1 1/4	3/4	9 1/4	3/4	
566B	3/4	1 1/4	7/8	9 1/4	3/4	
567	3/4	1 1/4	1	10	7/8	
567B	7/8	1 1/4	7/8	10	7/8	2.20
567C	7/8	1 1/4	1	10	7/8	
568	1	1 1/4	7/8	11	15/16	
568B	1	1 5/8	1	11	15/16	
568C	1 1/8	1 19/16	1	11	15/16	3.00
568D	1 1/4	2	1	11	15/16	

MACHINE WRENCHES

CARBON STEEL,



Extra Heavy for Planers, Milling Machines, Lathes,  
Drill Presses, Etc.

No.	Large Head U. S. S. Nut		Small Head for Set Screw: Size	Ex- treme Length	Thickness of Heads	Price Each
	Size Bolt	Openings Milled				
595	3/8	11 1/16	3/8	6 1/2	17 1/2	
595B	3/8	11 1/16	7/16	6 1/2	17 1/2	
595C	3/8	11 1/16	1/2	6 1/2	17 1/2	
595D	7/16	25/32	3/8	6 1/2	17 1/2	
595E	7/16	25/32	7/16	6 1/2	17 1/2	
595F	7/16	25/32	1/2	6 1/2	17 1/2	
596	1/2	7/8	7/16	7 1/2	19 1/2	
596B	1/2	7/8	1/2	7 1/2	19 1/2	
596C	1/2	7/8	9/16	7 1/2	19 1/2	
596D	1/2	7/8	5/8	7 1/2	19 1/2	
596E	9/16	31/32	7/16	7 1/2	19 1/2	
596F	9/16	31/32	1/2	7 1/2	19 1/2	
596G	9/16	31/32	9/16	7 1/2	19 1/2	
596H	9/16	31/32	5/8	7 1/2	19 1/2	
597	5/8	11 1/16	9/16	8 1/2	11 1/2	
597B	5/8	11 1/16	9/16	8 1/2	11 1/2	
597C	5/8	11 1/16	3/4	8 1/2	11 1/2	
598	3/4	11 1/4	3/4	10	13 1/2	
598B	3/4	11 1/4	7/8	10	13 1/2	
598C	3/4	11 1/4	1	10	13 1/2	
598D	7/8	11 1/16	3/4	10	13 1/2	
598E	7/8	11 1/16	7/8	10	13 1/2	
598F	7/8	11 1/16	1	10	13 1/2	

1.00

1.30

1.85

BONNEY DROP-FORGED WRENCH  
ASSORTMENT No. 60



There are three each of ten sizes of Carbon Steel Drop-Forged Wrenches in this assortment, including Light Service and Engineers' Types. A Lithographed Metal Front Display Board, 26" high by 7 1/2" wide, is included. The complete assortment is packed in an individual shipping container. Chart showing wrench numbers, sizes, etc., is shown below.

Weight, 19 lbs.

Price, \$15.75

No.	For U. S. Std. Nuts: Size Bolts	For Hex. Head Cap Screws: Diam. Screws	For S. A. E. Std. Nuts and Cap Screws: Size Bolts	Openings Milled	Ex-treme Length	Thickness Heads	Price Each
75A	& 1/4	5/16 & 5/16	& 5/16	3/8 & 1/2	6 1/4	1/4	\$0.35
79C	1/4 & 3/8	7/16 & 3/2	5/16 & 3/2	5/16 & 3/4	8 1/4	5/16	.60
83B	1/2 & 5/8	5/8 & 3/4	5/16 & 11/16	5/16 & 1 1/8	10 3/8	7/16	.95
21	3/8 & 5/16	5/8 & 3/4	5/16 & 11/16	5/16 & 13/16	3 1/2	3/16	.25
23	3/8 & 1/4	5/16 & 5/16	5/16 & 5/16	13/16 & 3/2	4	1/4	.30
25	1/2 & 7/16	5/16 & 5/16	5/16 & 5/16	1/2 & 19/32	4 1/8	9/32	.35
27	3/8 & 3/8	....	....	19/32 & 11/16	5 1/8	5/16	.40
29	3/8 & 1/2	....	....	11/16 & 23/32	6 1/8	11/32	.50
31	1/2 & 1 1/2	5/8 & 5/8	5/16 & 5/16	21/32 & 1 1/8	7 1/8	13/32	.60
34	3/2 & 5/8	5/8 & 5/8	5/16 & 5/16	5/8 & 1 1/16	9 1/4	1/2	.95

BONNEY DROP-FORGED WRENCH  
ASSORTMENT No. 55

This assortment contains three each of twelve popular sizes of Carbon Steel Drop-Forged Wrenches, as shown in chart below. An attractive display board, 7 1/2" wide by 26" high, is furnished with this assortment. The complete assortment is packed in an individual shipping container.

Weight, 16 lbs.

Price, \$16.20

No.	For U. S. Std. Nuts: Size Bolts	For Hex. Head Cap Screws: Diam. Screws	For S. A. E. Std. Nuts and Cap Screws: Size Bolts	Openings Milled	Ex-treme Length	Thickness Heads	Price Each
23	5/16 & 1/4	5/16 & 5/16	13/32 & 1/2	4	1/4	1/4	\$0.30
725	1/4 & 3/8	1/4 & 5/16	7/16 & 3/2	4 1/8	9/32	.35	.35
725B	1/4 & 5/16	5/16 & 3/8	5/16 & 9/16	4 1/8	9/32	.35	.35
25	1/4 & 5/16	5/16 & 5/16	1/2 & 19/32	4 1/8	9/32	.35	.35
727	3/8 & 7/16	5/8 & 3/16	5/16 & 5/16	5 1/8	5/16	.40	.40
27	5/16 & 3/8	....	19/32 & 11/16	5 1/8	5/16	.40	.40
29	3/8 & 1/2	....	11/16 & 23/32	6 1/8	11/32	.50	.50
731A	1/2 & 5/8	3/2 & 9/16	3/4 & 3/8	7 1/8	13/32	.60	.60
75B	5/16 & 1/4	5/16 & 5/16	3/8 & 7/16	6 1/4	1/4	.35	.35
77B	1/4 & 5/16	5/16 & 5/16	5/16 & 9/16	7 1/4	9/32	.45	.45
79C	7/16 & 5/8	7/16 & 1/2	5/8 & 3/4	8 1/4	5/16	.60	.60
81A	1/2 & 5/8	1/2 & 5/8	3/4 & 1/8	9 1/4	3/8	.75	.75

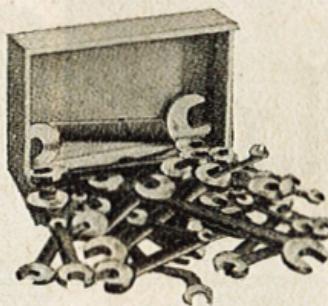


BONNEY  
GARAGE SET No. 650

This assortment consists of one each of thirty wrenches. It has been selected carefully as best suited for general garage and mechanical work.

It is a complete assortment of 15° and 22½° Double End Engineers' Wrenches for U. S. Standard and S. A. E. nuts and cap screws. It also includes Valve Tappet Wrenches and a special Wrench for the reverse gear and brake band adjustment on a Ford car. This assortment is packed in individual shipping containers which makes it easy to handle and ship. For convenience of large users, we have a container holding twelve of these sets. Price, each \$15.55.

Weight, each 14 lbs.



BONNEY AUTOMOBILE WRENCH SET No. 32

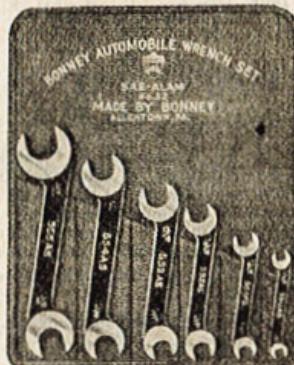
For S. A. E. and U. S. Standard Nuts and Cap Screw

These Wrenches are designed for use where a wide swing can be made. The angle of openings is 22½°. This set is a favorite for working about automobiles, also textile establishments and mills, where machine repairs are frequently necessary.

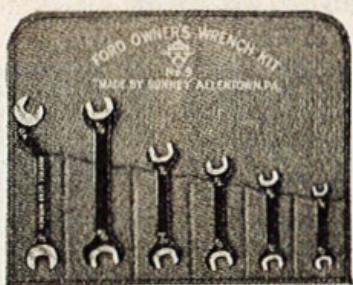
Set contains six Wrenches having twelve different openings for U. S. Standard and S. A. E. nuts and bolts, and cap screws, sizes from  $\frac{1}{4}$ " to  $\frac{1}{2}$ ". Actual openings are from  $\frac{3}{8}$ " to  $1\frac{1}{4}$ " inclusive. These openings will take all commonly used nuts on American made automotive and mill machinery.

Price, in cardboard boxes, \$4.30

Price, in canvas roll, \$4.85



No.	S. A. E. Standard Nut	U. S. Standard Nut	Cap Screw	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
550AS	& $\frac{1}{4}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{7}{16}$	$4\frac{1}{4}$	$\frac{1}{4}$	\$0.35
551AS	$\frac{5}{16}$ & $\frac{7}{8}$	$\frac{1}{4}$ &	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$5\frac{3}{4}$	$\frac{5}{16}$	.40
552AS	$\frac{7}{16}$ &	& $\frac{3}{8}$	$\frac{5}{16}$ &	$\frac{5}{8}$ & $\frac{13}{16}$	7	$1\frac{1}{32}$	.55
553AS	$\frac{3}{2}$ &	.....	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{13}{16}$	$8\frac{1}{4}$	$\frac{3}{8}$	.70
554AS	$\frac{9}{16}$ & $1\frac{1}{16}$	$\frac{1}{2}$ &	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{7}{8}$ & 1	$9\frac{1}{2}$	$\frac{7}{16}$	1.00
555AS	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	1	$\frac{11}{16}$ & $1\frac{1}{4}$	11	$\frac{1}{2}$	1.30



**BONNEY FORD OWNER'S WRENCH KIT No. 9**

Six Wrenches, twelve openings—one for every nut on the Ford. A complete Kit for Fords that includes a thin Wrench with offset bar for adjusting the reverse gear and brakes. Packed in a canvas roll, they fold up compactly and occupy very little room, yet are always ready to make any repairs or adjustments. This set is indispensable to a Ford owner.

Price, in cardboard box, \$3.00

Price, in canvas roll, 3.50

No.	S. A. E. Standard Nut	U. S. Standard Nut	Cap Screw	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
23F	& $\frac{1}{4}$	...	$\frac{3}{8}$ & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$4\frac{1}{4}$	$\frac{9}{32}$	\$0.30
25F	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{4}$ &	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	5	$\frac{5}{16}$	.35
27F	$\frac{7}{16}$ & $\frac{1}{2}$	...	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$	6	$1\frac{1}{32}$	.40
29F	...	$\frac{3}{8}$ & $\frac{7}{16}$	...	$1\frac{1}{16}$ & $2\frac{9}{32}$	$6\frac{3}{4}$	$\frac{9}{32}$	.50
33F	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{1}{2}$ &	$\frac{5}{8}$ &	$\frac{7}{8}$ & $1\frac{1}{16}$	9	$1\frac{5}{32}$	.75
100F	$\frac{1}{16}$ &	...	$\frac{1}{16}$ &	$\frac{5}{8}$ & $1\frac{1}{16}$	$8\frac{3}{4}$	$\frac{5}{16}$	.70

**BONNEY WRENCH SET  
No. 6**

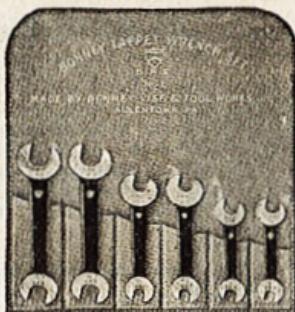
This set consists of six "Check Nut" or "Thin Wrenches" as shown by chart below. These wrenches are for light work only. The six wrenches comprise three pairs because in many adjustments two nuts of the same size are used to lock against each other.

Set No. 6 packed either in cardboard boxes or canvas roll.

Price, in cardboard box, \$2.70

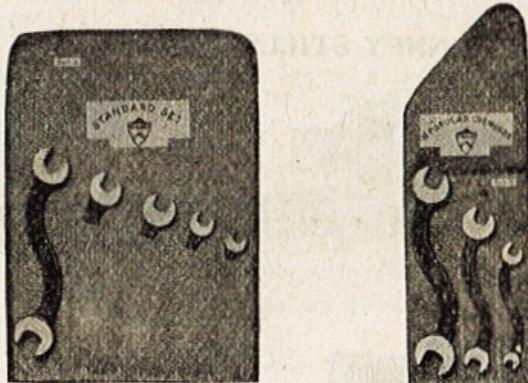
Price, in canvas roll, 3.20

Two of each wrench listed below to a set.



No.	S. A. E. Standard Nut	U. S. Standard Nut	Cap Screw	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
821A	$\frac{1}{4}$ & $\frac{3}{8}$	...	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{7}{16}$ & $\frac{9}{16}$	$4\frac{3}{8}$	$\frac{5}{32}$	\$0.35
823A	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{1}{4}$ &	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{5}{8}$	$5\frac{1}{2}$	$\frac{3}{16}$	.45
825A	$\frac{1}{2}$ & $\frac{9}{16}$	...	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	$6\frac{7}{8}$	$\frac{7}{32}$	.55

LIGHT SERVICE WRENCHES IN SETS



SET A contains 5 Wrenches, one each of the following:

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
75A	.....	3/16 & 5/16	& 5/16	3/8 & 1/2	6 1/4	7/16	\$0.35
77	1/4 &	5/16 & 7/16	5/16 & 7/16	1/2 & 5/8	7 1/4	7/16	.45
79C	.....	7/16 & 1/2	7/16 & 1/2	5/8 & 3/4	8 1/4	5/16	.60
81A	& 1/2	1/2 & 5/8	1/2 & 5/8	3/4 & 7/8	9 1/4	7/16	.75
83B	1/2 &	5/8 & 3/4	9/16 & 11/16	5/8 & 1	10 3/8	7/16	.95

Price, in cardboard box..... \$3.10      Price, in canvas roll..... \$3.65

SET B contains 3 Wrenches, one each of the following:

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
75A	.....	3/16 & 5/16	& 5/16	3/8 & 1/2	6 1/4	7/16	\$0.35
79C	.....	7/16 & 1/2	7/16 & 1/2	5/8 & 3/4	8 1/4	5/16	.60
83B	1/2 &	5/8 & 3/4	9/16 & 11/16	5/8 & 1	10 3/8	7/16	.95

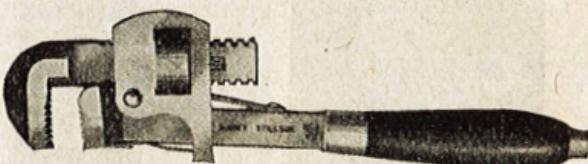
Price, in cardboard box..... \$1.90      Price, in canvas roll..... \$2.40

SET C contains 6 Wrenches, one each of the following:

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Open- ings Milled	Ex- treme Length	Thick- ness of Head	Price Each
75B	.....	3/16 & 1/4	& 1/4	3/8 & 7/16	6 1/4	7/16	\$0.35
77B	1/4 &	5/16 & 7/16	5/16 & 7/16	1/2 & 9/16	7 1/8	7/16	.45
79	& 3/8	7/16 & 1/2	7/16 & 1/2	5/8 & 11/16	8 1/4	5/16	.60
81B	.....	1/2 & 9/16	1/2 & 9/16	3/4 & 13/16	9 1/4	7/16	.75
83B	1/2 &	5/8 & 3/4	9/16 & 11/16	5/8 & 1	10 3/8	7/16	.95
85B	& 3/4	7/8 & 1	& 1 1/8	1 1/8 & 1 1/4	12	7/16	1.35

Price, in cardboard box..... \$4.45      Price, in canvas roll..... \$5.00

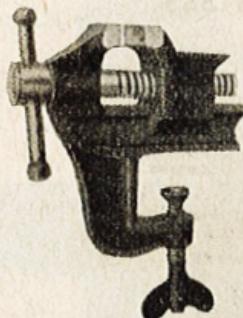
BONNEY STILLSON WRENCHES



Bonney Stillson Wrenches are forged from the highest grade tool steel. They are hardened and tempered by methods that we have developed during years of experience.

Each wrench is thoroughly tested and is absolutely warranted in every way. 6" to 18" sizes inclusive, furnished in wood or steel handle. 24", 36" and 48" sizes steel handle only.

Size	WRENCH		WRENCH PARTS							
	Grips Pipe	Wrench Each	Jaws	Frames	Steel Handle	Nuts	Wood Handle	Springs Per Set	Frame Pin	End Nut
6"	1/8 to 1/2	\$2.00	\$0.75	\$0.38	\$0.95	\$0.12	\$0.16	\$0.10	\$0.03	\$0.09
8"	1/8 to 3/4	2.25	.80	.42	1.00	.15	.16	.10	.03	.09
10"	1/8 to 1	2.50	.85	.50	1.10	.20	.18	.10	.04	.20
12"	1/8 to 1 1/4	3.25	1.10	.60	1.45	.30	.25	.10	.04	.20
14"	1/8 to 1 1/2	3.50	1.15	.60	1.50	.30	.25	.10	.04	.20
18"	1/8 to 2	5.00	1.75	.75	2.25	.35	.35	.10	.04	.30
24"	1/8 to 2 1/2	7.25	2.25	.95	3.50	.55	.....	.13	.05	.....
36"	3/4 to 3 1/2	13.50	4.35	1.70	7.00	1.10	.....	.13	.05	.....
48"	1 to 5	20.00	7.50	2.20	10.50	1.50	.....	.13	.05	.....



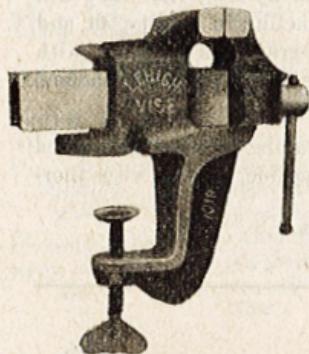
### BONNEY STANDARD VISES

Bonney Standard Vises are made for light uses where an inexpensive tool will answer the purpose. The jaws are made of the best grade of gray iron carefully ground to fit and machined. Both the main screw and thumb screw are machine threaded. The finish is very attractive in black enamel with polished screw, jaws and anvil.

The best cheap vise on the market.  
Made in four sizes.

#### LIST PRICE

No.	Description	Size of Jaw	Weight, Each	Price, Each
00	Iron Jaws	1"	1 lb.	\$0.60
01	Iron Jaws	1 1/2"	1 1/2 lb.	.75
02	Iron Jaws	2"	2 1/4 lb.	1.00
02 1/2	Iron Jaws	2 1/2"	4 lb.	1.75



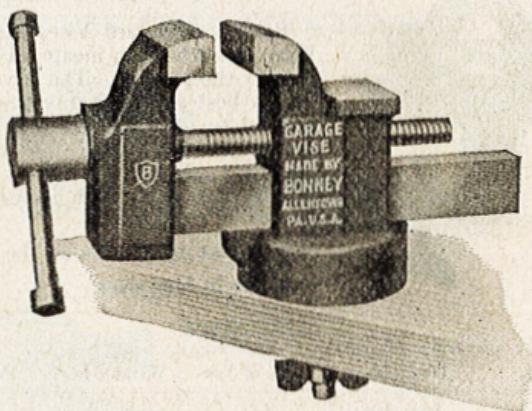
### BONNEY LEHIGH VISES

Bonney Lehigh Vises are manufactured along the same general lines as the heavy type of Machinists' Box Slide Vises.

The main screw is strongly made from bar steel, lathe threaded. They are small in size and designed particularly for tool makers, jig makers, die sinkers, jewelers and all practical mechanics

No.	Description	Size of Jaw	Weight, Each	Price Each
1006	Plain Iron Jaws, Clamp Base	1 1/2 in.	3 lbs.	\$1.50
1007	Plain Iron Jaws, Clamp Base	1 3/4 in.	3 1/4 lbs.	1.75
1008	Plain Iron Jaws, Clamp Base	2 in.	4 lbs.	2.25
1010	Plain Iron Jaws, Clamp Base	2 1/2 in.	5 1/2 lbs.	3.25
1012	Plain Iron Jaws, Clamp Base	3 in.	9 3/4 lbs.	4.75

## BONNEY GARAGE VISSES



There has been a steady demand for a heavy, strong, well-made Garage Vise at a moderate price. We have designed these vises to meet these specifications and have found, by test, that they will answer the requirements of the most exacting in quality, fit and finish. The jaws are heavy, reinforced gray iron castings, with hardened tool steel removable faces. The screws are steel machine threaded, and the slides are cold rolled steel.

These vises have a swivel base which can be adjusted and locked in any position. The parts are interchangeable, and the vises thoroughly warranted.

Made in two sizes.

## No. 830

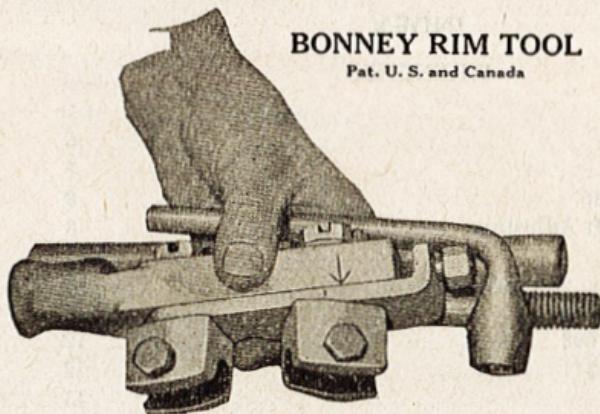
Width of jaw.....	.3 inches
Opens.....	.3½ "
Weight.....	.18 lbs.
Price.....	\$7.50 each

## No. 840

Width of jaw.....	.4 inches
Opens.....	.4½ "
Weight.....	.38 lbs.
Price.....	\$15.00 each

Packed in Individual Shipping Containers





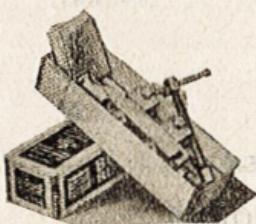
BONNEY RIM TOOL

Pat. U. S. and Canada

**A Quick  
acting,  
powerful  
tool for  
the shop  
and car**

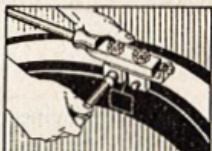
Packed in a  
box not much  
larger than a  
building  
brick.

Convenient to  
carry in the  
car.



**List Price, \$6.00**

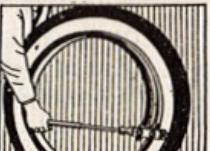
East of the Mississippi  
Canadian and Western prices  
slightly higher.



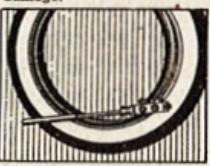
First, attach jaws securely on each side of the split by pulling set screws tight with the wrench provided.



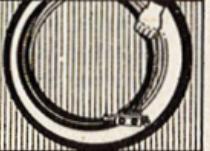
Then, insert the handle and roll the tire forward. The split will open smoothly, and the tire can now be removed.



Even a rusted on tire will  
come off easily without  
damage.



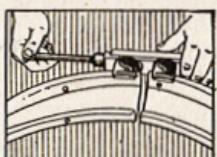
One semicircular sweep of  
the handle is all there is to  
the operation.



The handle should be re-  
moved. The tool then holds  
the rim in a contracted  
position. Do Not Remove  
Tool while rim is contracted.

For Kelsey Rims →

A special set screw is provided on the Bonney Rim Tool for spreading the split on Kelsey rims before contracting. Set arrows opposite each other before applying tool and just turn set screw to right or clockwise, spreading jaws until rim lock is free.



# BONNEY FORCE & TOOL WORKS Allentown, Pa.

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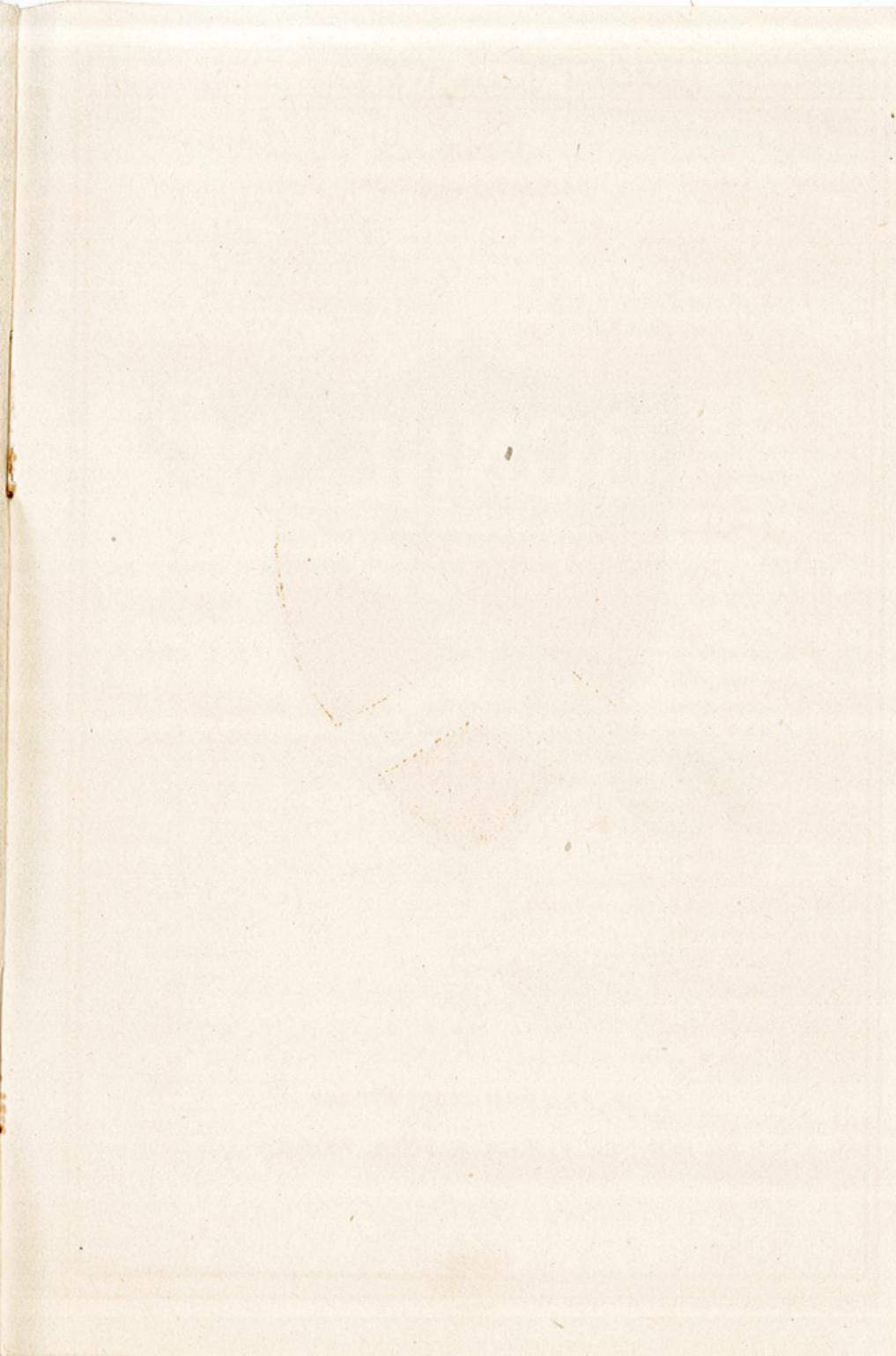
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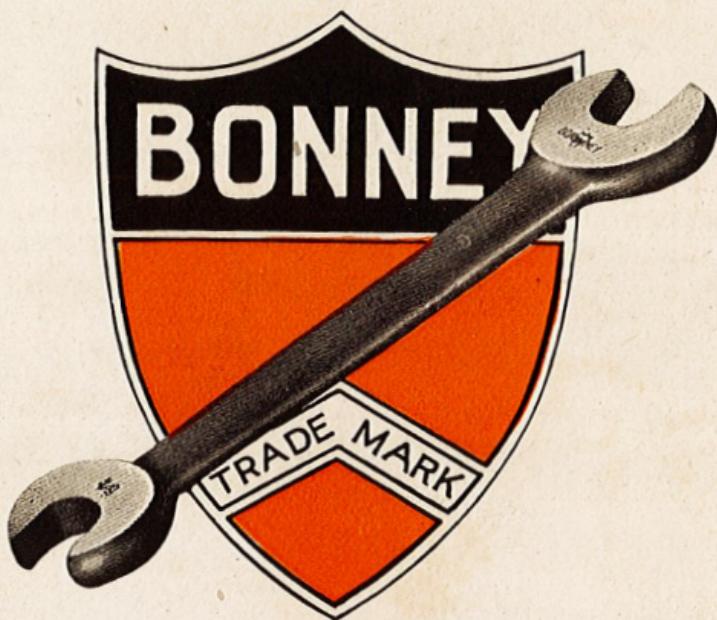
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